

1.3.3 Number of the student studied course on experimental learning through Project Work / Internship

Programme Name: Computer Science & Engineering			
Programme Code: 1-1408968327			
Year of offering: 2019-2020			
Sr. No.	Name of the Course that include experiential learning through project work/field work/internship	Course code	Number of the student studied course on experiential learning through project work/field work/internship
1.	Project Phase-I	CS417	146
2.	Vocational Training	CS418	
3.	Project Phase-II	CS426	
4.	Mini Project	CS327	137



B. Raje
PRINCIPAL,
College of Engineering
PANDHARPUR

SVERI's
College of Engineering, Pandharpur
Computer Science & Engineering
Department
Sponsored Project Record
A.Y.: 2019-2020



SHRI VITHAL EDUCATION & RESEARCH INSTITUTE'S

COLLEGE OF ENGINEERING, PANDHARPUR

P.B. No. 54, Gopalpur -Ranjani Road, Gopalpur, Tal.- Pandharpur- 413 304, Dist.- Solapur (Maharashtra)

Tel.: 02186-216063, 9503103757, E-mail : coe@sveri.ac.in, Website: www.sveri.ac.in

(Approved by A.I.C.T.E., New Delhi and affiliated to P. A. H. Solapur University, Solapur)

NBA Accredited all Eligible UG Programmes and , NAAC, Accredited Institute,


Accredited by The Institution of Engineers (India), Kolkata and TCS, Pune ISO 9001-2015 Certified Institute

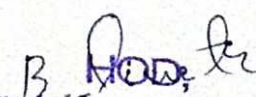


Department of Computer Science and Engineering

Sponsored Projects List B.E. CSE 2019-20

Group No.	Name of Students	Project Titles	Name of Industry
1	Pradip Mali	Car Rental Web Application	Mind IT Services, Miraj
	Jadhav Shrihari K		
	Karankot Rohan S		
	Kambale Rohit L		
	Dolle Mahadev I		
2	Sayali Bhosale	Fake News Analysis	Dacway Info, Solapur
	Jagalsure Mansi D		
	Dhasade Shraddha S		
	Shraddha Gaikwad		
3	Ardak Suraj S.	Smart Irrigation system using IOT	ADJ Infotech, Pvt.Ltd , Solapur
	Kalshetti Ajit P		
	Kedare Vishal G		
	Kalekar Aditya		
	Gund Atul K		
4	Pooja Vibhute	Smart Garbage Detection and Decomposition	Chaturdashi Enterprises & IT Services
	Shivani D Soni		
	Jyotsna Salunkhe		
	Sneha Padwal		
5	Dhanaraj T Patil	Fingerprint Based Voting System	Dacway Info, Solapur
	Vishal P Munguskar		
	Mujamul S Shaikh		
	Mayur R Patil		
	Pankaj A Shinde		
6	Tarannum N Tamboli	Smart Farm	ADJ Infotech, Pvt.Ltd Solapur
	Tabassum N Tamboli		
	Pratiksha R Shindepatil		
	Mayuri Z Surwase		
7	Pradipta Mahimkar	Detection of Fake Accounts with Machine Learning	Mind IT Services, Miraj
	Srushti S Dhavale		
	Madhura G Shinde		
	Prajakta S Sugandhi		


(Mr. P. G. Gaikwad)
Project Coordinator


B. N. D. K.
Department of Computer Science & Engg
SVERI's C.O.E. Pandharpur



SHRI VITHAL EDUCATION & RESEARCH INSTITUTE'S

COLLEGE OF ENGINEERING, PANDHARPUR

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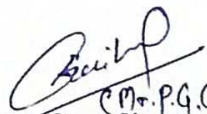
ISO 9001:2015



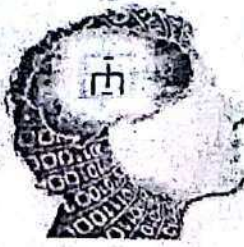
www.tuv.com
ID 910048198

Department of Computer Science and Engineering Sponsored Projects List B.E. CSE 2019-20

Group No.	Name of Students	Project Titles	Name of Industry
8	Kumbhar Kajal P	Lane detection using Artificial Intellegence.	Chaturdashi Enterprises & IT Services
	Thakare Gayatri S		
	Bhosale Priti		
	Bhui Aparna		
	Bhosale Pradnya		
9	Shubham S Shirur	Skill encouragement website (InnerVoice)	Webtech Developers Pvt. Ltd
	Siddhnath Bhandare		
	Vinit Mhetre		
	Pratap Madgundi		
	Deshmukh A. G.		


(Mr. P. G. Guikwad)
Project Coordinator


B. HOD,
Department of Computer Science & Engg
Head, CSE Dept.
SVERI's C.O.E. Pandharpur



Mind IT Services

True Minded People! Reliable Services!

Cell: +91-9270080011

Email: mail@minditservices.in

Website: www.minditservices.in

Govt Colony Opp. Datta Mandir

Miraj - 416 410

Dist. Sangli, Maharashtra

To,
HOD,
Computer Science & Engineering Department,
SVRI's College of Engineering,
Pandharpur.

Subject: -Letter of Appreciation for your final students.

Dear Sir,

We are happy to inform you that your following students have interacted our team and visited our sites at Mind IT Services at Miraj, Tal. Miraj Dist. Sangli for doing their final year project titled "Car Rental Web Application" during academic year 2019-20. The notable points of the projects are:

1. It is important for the team to have domain knowledge.
2. Teams that will challenge them through questioning ideas and offering their advice on the best way forward.
3. A software project team will have an extensive background in software development and significant IT domain knowledge.

Name of students:

1. Pradip Mali
2. Jadhav Shrihari K.
3. Karankot Rohan S
4. Kambale Rohit I.
5. Dolle Mahadev I



Authorized Signature



Dacway

To,
HOD,
Computer Science & Engineering Department,
College of Engineering,
Pandharpur.

Subject: -Letter of Appreciation for your final students.

Dear Sir/Madam,


We are happy to inform you that your following students have interacted our team and visited our sites at DacwayInfo. Solapur for doing their final year project titled **"Fake News Analysis"** during academic year 2019-20. The notable points of the projects are:

1. It is important for the team to have domain knowledge.
2. Teams that will challenge them through questioning ideas and offering their advice on the best way forward.
3. A software project team will have an extensive background in software development and significant IT domain knowledge.

Name of students:

1. Sayali Bhosale
2. Jagalpure Mansi D
3. Dhasade Shraddha S
4. Shraddha Gaikwad




DACWAYINFOTECH



ADJ Infotech

22, Veershalv Nagar, Jule Solapur, Solapur. Cell Number: +919511906919
www.adjinfotech.com Email : unkar@adjinfotech.com

To,
HOD,
Computer Science & Engineering Department.
College of Engineering,
Pandharpur.

Subject: -Letter of Appreciation for your final students.

Dear Sir/Madam,

We are happy to inform you that your following students have interacted our team and visited our sites at ADJ InfoTech, Pvt. Ltd. Solapur for doing their final year project titled **“Smart Irrigation system using IOT”** during academic year 2019-20. The notable points of the projects are:

4. It is important for the team to have domain knowledge.
5. Teams that will challenge them through questioning ideas and offering their advice on the best way forward.
6. A software project team will have an extensive background in software development and significant IT domain knowledge.

Name of students:

1. Ardak Suraj S.
2. Kalshetti Ajit P.
3. Kedare Vishal G.
4. Kalekar Aditya





कर्मण्येवाधिकारस्ते मा फलेषु कदाचन । मा कर्मफलहेतुर्भूर्मा ते सङ्गोऽस्त्वकर्मणि ॥

CHATURDASHI ENTERPRISES & IT SERVICES

Vilasrao Shinde Shopping Center, Plot No. 16, Main Road Ashta

Tal-Walwa, Dist-Sangli Pin-416301 UAM No. : MH32D0035815

Contact No.: 8600477947 / 9403985975/76 Email:-ssvs25815@gmail.com.

Ref. No.

Date :- 27/08/2019

To whomsoever it may concern

This is to certify that students of Computer Science and Engineering Department from SVERI's College of Engineering Pandharpur are allowed to develop software module for our Company under title of "Smart Garbage Detection and Decomposition."

The details of operation will be provided as per requirements.

The students are as follows

1. Ms. Pooja Vibhute
2. Ms. Shivani D. Soni
3. Ms. Jyotsna Salunkhe
4. Ms. Sneha Padwal




Authorized Signature

Dacway

To,
HOD,
Computer Science & Engineering Department,
College of Engineering,
Pandharpur.

Subject: -Letter of Appreciation for your final students.

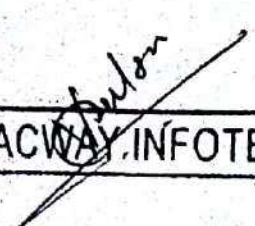
Dear Sir/Madam,

We are happy to inform you that your following students have interacted our team and visited our sites at DacwayInfo. Solapur for doing their final year project titled "**Fingerprint Based Voting System**" during academic year 2019-20. The notable points of the projects are:

1. It is important for the team to have domain knowledge.
2. Teams that will challenge them through questioning ideas and offering their advice on the best way forward.
3. A software project team will have an extensive background in software development and significant IT domain knowledge.

Name of students:

1. Dhanaraj T Patil
2. Vishal P Munguskar
3. Mujamuil S Shaikh
4. Mayur R Patil
5. Pankaj A Shinde


DACWAY INFOTECH





ADJ Infotech

22, Veershaiv Nagar, Jule Solapur, Solapur. Cell Number: +919511906919
www.adjinfotech.com Email: pnkar@adjinfotech.com

To,
HOD,
Computer Science & Engineering Department.
College of Engineering,
Pandharpur.

Subject: -Letter of Appreciation for your final students.

Dear Sir/Madam,

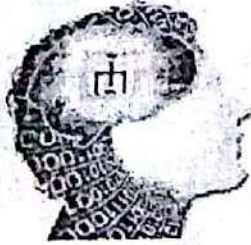
We are happy to inform you that your following students have interacted our team and visited our sites at ADJ InfoTech, Pvt. Ltd. Solapur for doing their final year project titled **"Smart Farm"** during academic year 2019-20. The notable points of the projects are:

1. It is important for the team to have domain knowledge.
2. Teams that will challenge them through questioning ideas and offering their advice on the best way forward.
3. A software project team will have an extensive background in software development and significant IT domain knowledge.

Name of students:

1. Tarannum N. Tamboli
2. Tarbassum N. Tamboli
3. Pratiksha R. Shindepatil
4. Mayuri Z. Surwase





Mind IT Services

True Minded People! Reliable Services!

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Email: mail@minditservices.in

Website: www.minditservices.in

Govt. Colony, Opp. Datta Mandir

Miraj - 416 410

Dist. Sangli, Maharashtra

To,

HOD,

Computer Science & Engineering Department.

SVRI's College of Engineering,

Pandharpur.

Subject: -Letter of Appreciation for your final students.

We are happy to inform you that your following students have interacted our team and visited our sites at Mind IT Services at Miraj, Tal. Miraj Dist. Sangli for doing their final year project titled "**Detection of Fake Accounts with Machine Learning**" during academic year 2019-20. The notable points of the projects are

1. It is important for the team to have domain knowledge.
2. Teams that will challenge them through questioning ideas and offering their advice on the best way forward.
3. A software project team will have an extensive background in software development and significant IT domain knowledge.
4. The project is completed on-time, and with all features and functions as initially specified.

Name of students:

1. Ms. Pradipta Mahimkar
2. Ms. Srushti S. Dhavale
3. Ms. Madhura G. Shinde
4. Ms. Prajktia S. Sugandhi



H. Ambekar
Authorized Signature



कर्मण्येवाधिकारस्ते मा फलेषु कदाचन । मा कर्मफलहेतुर्भूर्मा ते संगोऽस्त्वकर्मणि ॥
CHATURDASHI ENTERPRISES & IT SERVICES

Vilasrao Shinde Shopping Center, Plot No. 16, Main Road Ashta
Tal-Walwa, Dist-Sangli Pin-416301 UAM No. : MH32D0035615
Contact No.: 8600477947 / 9403985975/76 Email:-ssvs25815@gmail.com.

Ref. No.

Date :- 10/09/2019

To whomsoever it may concern

This is to certify that students of Computer Science and Engineering Department from SVERI's College of Engineering Pandharpur are allowed to develop software module for our Company under title of "Lane detection using Artificial Intelligence."

The details of operation will be provided as per requirements.

The students are as follows

1. Ms. Kumbhar Kajal P
2. Ms. Thakare Gayatri S
3. Ms. Bhosale Priti
4. Ms. Bhui Aparna
5. Ms. Bhosale Pradnya




Authorized Signature



DUTY IS DEITY

Shri Siddheshwar Devasthan's

Shri Siddheshwar English Medium High School,

1, Siddheshwar Peth, Solapur - 413001

School Index No - 24.09.090

Email address :- siddheshwar.engmed@gmail.com

☎ - 0217-2748772

Date - 10.04.2019

To,

Inner Voice Project Group

SVERI, Pandharpur

Sub: Sponsorship for developing the website.

Dear Inner Voice Project Group Members,

(Mast. Shubham Shirur, Mast. Rohan Karankat, Miss. Apurva Mohite, Miss. Khushali Rane and Miss. Ravina Narle)

We are happy to inform you that we have decided to be the sponsor your project of developing website www.innervoice.com

The enthusiasm and the intent of the project members behind developing the website are appreciated. The purpose of providing the platform to the people to show their talents, skills and represent themselves in their field of interest is commendable and hence we hereby provide you the sponsorship of Rs. 7000/- (Seven Thousand only) including the hosting charges.

Regards,

Mr. Dhananjay S. Sirur
Principal

Shri Siddheshwar English Medium
High School, Solapur



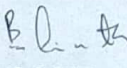
SVERI's
College of Engineering, Pandharpur
Computer Science & Engineering
Department
B.E. Project Record
A.Y.: 2019-2020



SVERI's College of Engineering, Pandharpur
Department of Computer Science & Engineering
BE CSE 2019-20 Project List

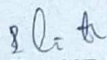
Group No	Name of Students	Project Title	Name of Guide
1	AditiGhavate	Homemade Crafts Website (S creation)	Mr. P. G. Gaikwad
	GonjariShivashri P		
	GauriLigade		
	KambleSupriya S		
2	Landage Kajal V	OBJECT DETECTION in python	Mr. S. M. Shinde
	LandagePriya v		
	GuravAishwarya V		
	Babar Sonali D		
3	KaziTasmiya J	IOT based Patient Monitoring System	Dr. Padmanjali
	DanakePrakta V		
	Thite Kajal		
	SupekarPranali		
4	MahajanDnyanada	Car Rental Web Application	Mr. P. K. Kurzekar
	GaikwadSnehal N		
	Pradip Mali		
	JadhavShrihari K		
4	KarankotRohan S	Car Rental Web Application	Mr. P. K. Kurzekar
	KambaleRohit L		
	DolleMahadev I		


Project Coordinator

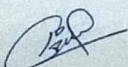

HoDCSE


5	Chavan Ashwini L	Enhances Security for ATM Machine with OTP and Facial Recognition System	Mr. P. K. Kurzekar
	Done Shilpa S		
	Dahinande Swati R		
	Babar Sonali D		
	Kazi Tasmiya J		
6	Sayali Bhosale	Fake News Analysis	Mr. H. M. Tamboli
	Jagalpure Mansi D		
	Dhasade Shraddha S		
	Shraddha Gaikwad		
7	Khadake Vidya S	Face Detection and Recognition using Raspberry Pi	Ms. P. R. Dolas
	Kshirsagar Apurva P		
	Ghongare Pratiksha A		
	Bokefode Sanjana M		
8	Gadhawe Varsha J	Speech Recognition in Python.	Ms. S. S. Kadam
	Lawate Poonam S		
	Khapale Monika S		
	Shinde Jyoti Madhukar		
9	Khabani V. S.	Development of CAD for early detection of lung cancer using Foldscope.	Ms. V. D. Jadhav
	Kasulwar K. V.		
	Anand Mali		
	Abhinav Anand		
10	Ardak Suraj S.	Smart Irrigation system using IOT	Mr. N. N. Salvithal
	Kalshetti Ajit P		
	Kedare Vishal G		
	Kalekar Aditya		
	Gund Atul K		


Project Coordinator

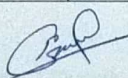

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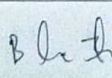
11	AudumbarNikam	Bike Rental System	Ms. R. R. Shinde
	KiranSathe		
	BalajiNarwate		
	HarshalRamgude		
	AbhishekKalase		
12	RupaliGurav	Advanced Intrusion Detection and Protection System	Ms. S. A. Shegdar
	AartiGodase		
	Dixit Girija V		
	SnehalBhosale		
	BagwanRafat R		
13	Smita Yadav	Biometric Attendance System Using IOT	Mr. S. V. Darshane
	RutujaTaksale		
	Kajal Mali		
	Ratnprabha More		
14	PoojaVibhute	Smart Garbage Detection and Decomposition	Mrs. S. S. Bhosale
	Shivani D Soni		
	JyotsnaSalunkhe		
	SnehaPadwal		
15	ShwetaMisal	Conjunction control in wireless network using NS3	Ms. N. D. Deval
	Vidya More		
	PrajaktaSatpute		
	GauriRamnawmiwale		
	DipaliSathe		
16	MinakshiBhosale	Skin Database	Ms. N. D. Deval
	MadhuriHowal		
	KachareSonali		
	Smita Narkhedkar		


Project Coordinator

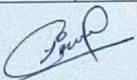

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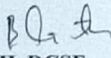
17	RewatiSonkawde	Farm equipment rental system	MsAnuradha More
	ManjushaLimbitote		
	PritiPise		
	MrunaliNanaware		
	BhavanaMusale		
18	Shubham S Shirur	Skill encouragement website(InnerVoice)	Dr. S. B. Thigale
	SiddhnathBhandare		
	PratapMadgundi		
	Deshmukh A. G.		
19	Sukeshani S Shinde	Garbage automation using IoT	Mr. N. M. Maske
	Shrutika S. Musale		
	Ayesha L. Mulani		
	Archana More		
	VaishanviRandive		
20	Shweta S Vibhute	Share Marketing App	Mr. B. B. Jagdale
	Akshaya A Sherkar		
	Shradha S Tanawade		
	Aishwarya S Nikam		
21	Khushali C Rane	Online Transport System	Mr. N. N. Salvitthal
	Ravina B Narale		
	SimranSayyad		
	Apurva L Mohite		
22	Dhanaraj T Patil	Fingerprint Based Voting System	Mr. H. M. Tamboli
	Vishal P Munguskar		
	Mujamuil S Shaikh		
	Mayur R Patil		
	Pankaj A Shinde		


Project Coordinator


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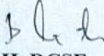
23	TopageAkshay K.	Business platform for farmers using Android App	Mr. R. D. Kulkarni
	BHARAT K Sutar		
	Ganesh S Rananavare		
	Abhijeet A Patil		
	Rohit Vishnu Nagtilak		
24	Tarannum N Tamboli	SmartFarming	Ms. P. R. Dolas
	Tabassum N Tamboli		
	Pratiksha R Shindepatil		
	Mayuri Z Surwase		
25	SathePrajakta A	Classification of Soil Contamination	Mr. R. B. Kagade
	Patil Mispa S		
	MahimkarShailaja S		
	Kanchan D Tonape		
	LondheMayuri B		
26	Jalindar H Dhembare	Digital Fine Collection System	Ms. T. A. Dhumal
	Akash P Surwase		
	Suyog R Nirmal		
	YogeshShingade		
	Mayur K Vasav		
27	Sanam K Maske	Biometric Voting Machine Using UID (Aadhar)	Ms. A. S. Pathan
	Rutuja P Patil		
	Sandhyarani D Tekale		
	Shrilekha B Narkhedkar		
28	PradiptaMahimkar	Detection of Fake Accounts with Machine Learning	Mr. V. M. Sale
	Srushti S Dhavale		
	Madhura G Shinde		
	Prajakta S Sugandhi		


Project Coordinator


HoDCSE

29	Tanaji Kumbhar	Partial Face Recognition using deep learning	Mr. G. G. Patil
	Harshad More		
	Pandurang Dandge		
	Avinash Lad		
30	Danave Shraddha P	Flood Prediction using Machine Learning	Ms. R. M. Shinde
	Bhairi Navina T		
	Kamble Snehal A		
	Gharbude Sneha H		
31	Kumbhar Kajal P	Lane detection using Artificial Intelligence.	Ms. R. M. Shinde
	Thakare Gayatri S		
	Bhosale Priti		
	Bhui Aparna		
	Bhosale Pradnya		
32	Bhosale Gauri	Predicting Air Pollution in specified city	Ms. D.V. Patil
	Bhosale Priyanka		
	Kale Preeti		
	Kamble Dipali		
33	Nikita Kamble	Stock Prices Detector	Ms. A. S. Pathan
	Neha Babar		
	Himangi Doke		
	Tejaswini Chavan		


Project Coordinator


HoDCSE



Engineering for Excellence

SVERI's COLLEGE OF ENGINEERING, PANDHARPUR

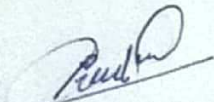
CERTIFICATE


*This is to certify that the dissertation entitled
"Homemade Crafts (S creation) Website Development"
has been submitted by*

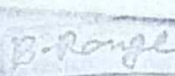
Project Group No.:- 01

1)	Aditi Ghavate Abasaheb
2)	Gonjari Shivashri Prabhakar
3)	Gauri Ligade Anil
4)	Kamble Supriya Sunil

*For partial fulfillment of Bachelor Degree in Computer Science and
Engineering as per curriculum laid by the Punyashlok Ahilyadevi Holkar
Solapur University, Solapur during the academic year 2019-2020.*


(Prof. P. G. Gaikwad)
Project Guide


(Dr. B. C. Melinamath)
Head, CSE Dept.


(Dr. B. P. Ronge)
Principal



Engineering for Excellence

SVERI's COLLEGE OF ENGINEERING, PANDHARPUR

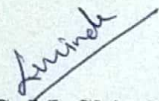
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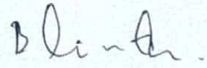
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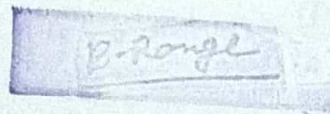
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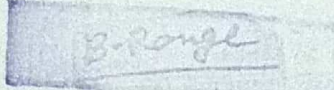
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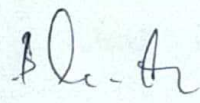
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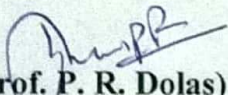
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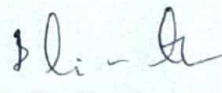
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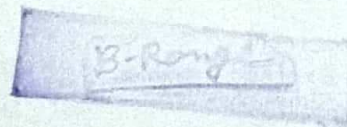
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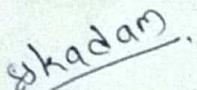
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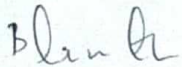
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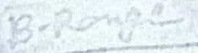
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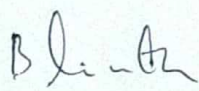
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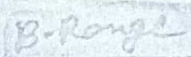
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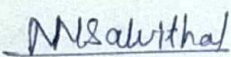
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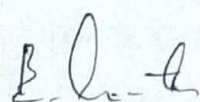
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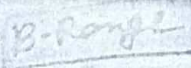
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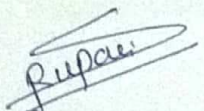
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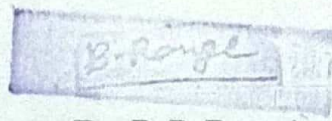
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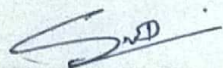
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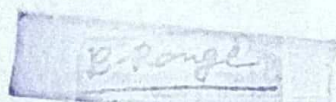
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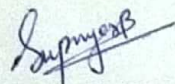
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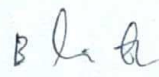
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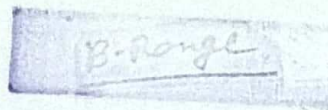
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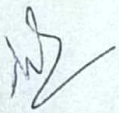
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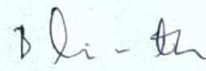
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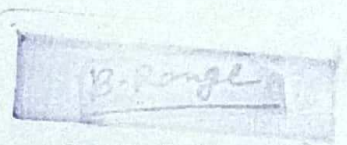
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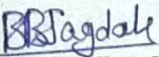
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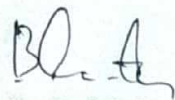
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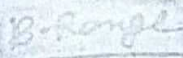
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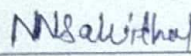
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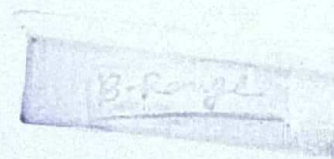
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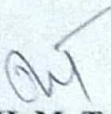
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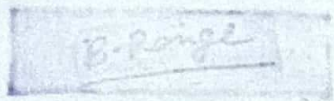
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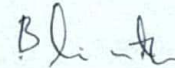
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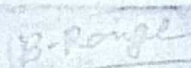
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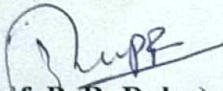
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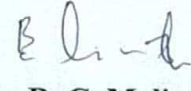
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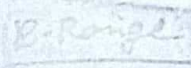
Project Group No.:-24

- 1) Tarannum N. Tamboli
- 2) Tabassum N. Tamboli
- 3) Pratiksha R. Shindepatil
- 4) Mayuri Z. Surwase

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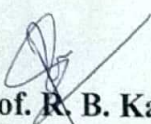
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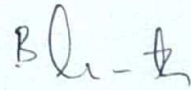
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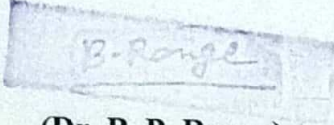
Project Group No.:- 25

- 1) Sathe Prajkta A
- 2) Patil Mispa S
- 3) Mahimkar Shailaja S
- 4) Kanchan D Tonape
- 5) Londhe Mayuri B

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Project Group No.:- 26

- 1) Jalindar H Dhembare
- 2) Akash P Surwase
- 3) Suyog R Nirmal
- 4) Yogesh Shingade
- 5) Mayur K Vasav

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- 1) Sanam K Maske
- 2) Rutuja P Patil
- 3) Sandhyarani D Tekale
- 4) Shrilekha B Narkhedkar

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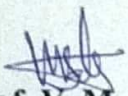
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- 1) Pradipta Mahimkar
- 2) Srushti S. Dhavale
- 3) Madhura G. Shinde
- 4) Prajkta S. Sugandhi

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- 1) Tanaji Kumbhar
- 2) Harshad More
- 3) Pandurang Dandge
- 4) Avinash Lad

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- 1) Danave Shraddha P
- 2) Bhairi Navina T
- 3) Kamble Snehal A
- 4) Gharbude Sneha H

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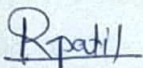
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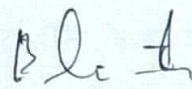
Project Group No.:-31

- 1) Kumbhar Kajal P
- 2) ThakareGayatri S
- 3) BhosalePriti
- 4) BhuiAparna
- 5) BhosalePradnya

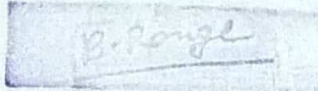
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
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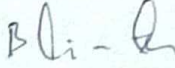
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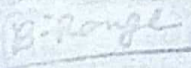
Project Group No.:-32

- 1) Bhosale Gauri
- 2) Bhosale Priyanka
- 3) Kale Preeti
- 4) Kamble Dipali

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- 1) Nikita Kamble
- 2) Neha Babar
- 3) Himangi Doke
- 4) Tejaswini Chavan

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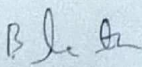
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A.Y.: 2019-2020



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Department of Computer Science & Engineering
TE CSE 2019-20 Mini-Project List

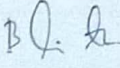
TE A Division			
Group Number	Name of Student	Project Title	Allocated Guide
1	RutujaPravinKachare	Blood and Donar Management System	Dr. B. C. Melinamath
	VaishnaviBhagwanBhadule		
	AishwaryaAtulGaikwad		
	Monika MarutiChavare		
2	FakadeMrunal Mahesh	Plant Monitoring System Using IOT.	Ms. D. V. Patil
	IrkareShmaDigambar		
	KhatibTaslimRafik		
	RaoSumanSadanand		
3	Yadav PravinaChandrakant	Hostel Management System	Ms. S. S. Bhosale
	MuladeAishwarya		
	TodkariVishnavidevivilas		
4	AfrojZakirSayyad	Library Management System	Mr. P. K. Kurzekar
	Kajal BanduJadhav		
	Sayali PrakashHajare		
5	VrushaliBaswaraj Swami	Bloodbank Management System	Ms. N. D. Deval
	Padmaja Sanjay Shete		
	AsawariSharadShinde		
	Sayali DattatrayAwatade		


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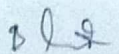
6	ShrutiBabanKawade	Prediction of COVID-19 Outbreak using Machine Learning Techniques	Ms. V. D. Jadhav
	Aboli Vijay Gaikwad		
	KiranSenapatiKedar		
	Richa Dinesh Tamhane		
7	Pratima Sunil Jadhav	Café Billing System using C#	Ms. S. S. Kadam
	VishakhaBhaskarKamble		
	SimranShakilMulani		
	ShrutiYashwantTawashe		
8	AnjumRafikPathan	Hospital Management System	Mr. P. K. Kurzekar
	ChaitraliHanumantShiral		
	UmeyaniAkilahmadKamliwale		
	Kajal Maruti Mane		
9	Sakshi S. Tonape	Online Voting System	Mr. N. M. Maske
	Tejaswini N. Farkande		
	Ashlesha B. Pise		
	Shravani P. Burande		
10	PriyankaAbhayKamble	Twitter Sentiment Analysis	Mr. A. M. Dyade
	ChaitaliRajendraBochare		
	VaishnaviRavindraDevidas		
	Smita GanpatDhengale		
11	YogitaShivajiMasal	Online Quiz	Mrs. S. A. Shegdar
	AkankshaAvadhut Patil		
	SnehalSaudagarKhatal		
	PriyankaVitthalKharade		
12	Rutuja Sanjay More	Login using Image Uploading	Ms. N. D. Deval
	SnehalShivajiKasabe		
	PornimaAjitRajurkar		
	Sayali TanajiMagar		


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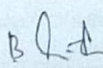
13	ManishaBabasahebAkhade	Music Player Android App	Ms. S. S. Bhosale
	AnujaRamdasBhange		
	SnehalTanajiBhusare		
	SoyarabaiUttareshwar Patil		
	DhanashriRajendraAmbure		
14	Ashutosh S. Jawanjale	Housing Price Prediction using Machine Learning	Mr. B.B.Jagdale
	Satyajit A. Kale		
	Nana B. Chavan		
	Kuldip K. Raut		
	Swapnil L. Vasekar		
15	Satyam H. Khandekar	Spirit Website	Mr. P. G. Gaikwad
	Suraj S. Patil		
	Malhar P. Urade		
	SwaritBhandari		
	Amol S. Anuse		
TE B Division			
16	PrachiGurav	Lab automation by using IOT	Mr. R. B. Kagade
	SnehaShinde		
	KrantiSiddhaganesh		
	RevatiAadhlinge		
	SujataBirajdar		
17	PravinShedbale	Alzheimer's Disease Early Detection using Machine Learning	Mr.N. N. Salvithal
	SushantKumbhar		
	SandeshNarkar		
	Deepak Sakhare		
	SumeetMulge		
18	SandeshKoli	Gas Detection System using IoT	Dr. P. A.Hagargi
	DhavalKhobare		
	AmolSalunke		
	ShubhamKalpagar		


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
19	ShivaniShende	Hotel Management System App	Ms. R. M. Shinde
	SrushtiDindore		
	Gayatri Dixit		
	ShraddhaPadwal		
20	AishwaryaMetkari	Online shopping front end work remainkng to the tune of 20%	Mr. S. V. Darshane
	BhagyashriWaghmode		
	Shivani Swami		
	PrajaktaAsabe		
	SeemaRaut		
21	YogitaAthawale	Student management system	Ms. A. A. More
	ChandaniBhoi		
	AnkitaBhoite		
	SakshiMandwale		
22	Dhananjay Mane	mCricket IOT Based Demonstration Platform	Mr. N.N. Salvithal
	Rajat Gupta		
	RavirajSawant		
	Sanjay Honmane		
	AbhishekAlagi		
23	SnehaPandit	Website designing for Oasis	Mr. R. D. Kulkarni
	HarshdaBhandare		
	PunamSutar		
	AnuJare		
24	Patil Nikita	Online Banking System	Mr. V. M. Sale
	MundheBhagyashri		
	KhadakeShubhangi		
25	Mamtajangid	UniOS Application	Ms. P. R. Dolas
	KavitaPardeshi		
	VaishnaviBhogawakar		
	Chandanshive Pratiksha		


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26	Snehalpatil	Student results management system	Mr. B. B. Jagdale
	Dipalijadhav		
	PoojaSarovade		
	Poojabeldar		
27	Swapnali Patil	Android Jewelry Album App	Ms. R. R. Shinde
	SumaiyyaManeri		
	PranotiSarovagad		
	KomalKadlaskar		
28	DipaliLigade	Online Shopping	Ms. A. S. Pathan
	PallaviPangudwale		
	Snehal Swami		
	Swati Shivsharan		
29	GawaliPriyanka	Agroweb Website Development	Mr. H. M. Tamboli
	SupriyaJadhav		
	SnehalPise		
	Pratiksha Gaikwad		
30	RajshreeGaikwad	Rainfall Prediction System	Mr. G.G.Patil
	ShravaniGaikwad		
	PuneetSawhaney		
	AdityaDhaygude		
31	KanifnathDake	Online Jewelry shopping	Ms. T. A. Dhumal
	SagarBarle		
	HrithvikNamade		
	ArbajShaikh		
32	Pruthviraj Patil	E-classroom	Mr. S. M. Shinde
	AmitNannaware		
	Mahesh Phutane		
	AdarshVernekar		
33	VinayakWaghmode	Maharashtra Tourism Website	Mr. V. M. Sale
	RohitGodase		
	PrafulGaikwad		
	AmitNanaware		
	Sameer Devale		
	BalajiNarvate		


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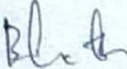
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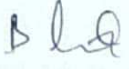
Project Group No.:- 01

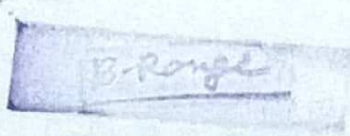
- 1) Rutuja Pravin Kachare
- 2) Vaishnavi Bhagwan Bhadule
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"Plant Monitoring System Using IOT."
has been submitted by*

Project Group No.:- 02

- 1) Fakade Mrunal Mahesh
- 2) Irkar Reshma Digambar
- 3) Khatib Taslim Rafik
- 4) Rao Suman Sadanand


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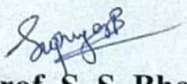
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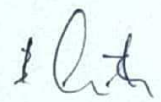
Project Group No.:- 03

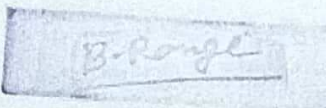
- 1) Yadav Pravina Chandrakant
- 2) Mulade Aishwarya
- 3) Todkari Vishnavidevi vilas

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*This is to certify that the Mini project entitled
"Library Management System."
has been submitted by*

Project Group No.:- 04

- 1) Afroj Zakir Sayyad
- 2) Kajal Bandu Jadhav
- 3) Sayali Prakash Hajare

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*This is to certify that the Mini project entitled
"Bloodbank Management System"
has been submitted by*

Project Group No.:- 05

- 1) Vrushali Baswaraj Swami
- 2) Padmaja Sanjay Shete
- 3) Asawari Sharad Shinde
- 4) Sayali Dattatray Awatade

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N. D. Deval

(Prof. N. D. Deval)

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*This is to certify that the Mini project entitled
"Prediction of COVID-19 Outbreak using Machine Learning
Techniques"*

has been submitted by

Project Group No.:- 06

- 1) Shruti Baban Kawade
- 2) Aboli Vijay Gaikwad
- 3) Kiran Senapati Kedar
- 4) Richa Dinesh Tamhane

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*This is to certify that the Mini project entitled
"Café Billing System using C#"
has been submitted by*

Project Group No.:- 07

- 1) Pratima Sunil Jadhav
- 2) Vishakha Bhaskar
Kamble
- 3) Simran Shakil Mulani
- 4) Shruti Yashwant
Tawashe

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sskadam

(Prof. S. S. Kadam)

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B C Melinamath

(Dr. B. C. Melinamath)

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B. P. Ronge

(Dr. B. P. Ronge)
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*This is to certify that the Mini project entitled
"Hospital Management System."
has been submitted by*

Project Group No.:- 08

- 1) Anjum Rafik Pathan
- 2) Chaitrali Hanumant Shiral
- 3) Umeyani Akilahmad Kamliwale
- 4) Kajal Maruti Mane

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(Prof. P. K. Kurzekar)

Project Guide

(Dr. B. C. Melinamath)

Head, CSE Dept.

(Dr. B. P. Ronge)
Principal



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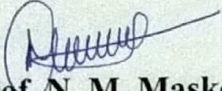
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"Online Voting System"
has been submitted by*

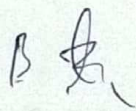
Project Group No.:- 09

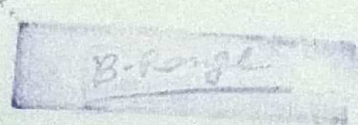
- 1) Sakshi S. Tonape
- 2) Tejaswini N. Farkande
- 3) Ashlesha B. Pise
- 4) Shravani P. Burande

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laid by the Punyashlok Ahilyadevi Holkar Solapur University, Solapur
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(Prof. N. M. Maske)

Project Guide


(Dr. B. C. Melinamath)
Head, CSE Dept.


(Dr. B. P. Ronge)
Principal



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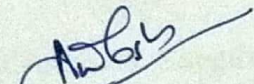
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"Twitter Sentiment Analysis"
has been submitted by*

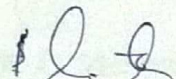
Project Group No.:- 10

- 1) Priyanka Abhay Kamble
- 2) Chaitali Rajendra Bocharé
- 3) Vaishnavi Ravindra Devidas
- 4) Smita Ganpat Dhengale

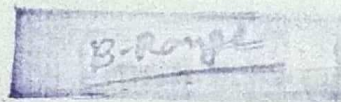
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laid by the Punyashlok Ahilyadevi Holkar Solapur University, Solapur
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(Prof. A. M. Dyade)

Project Guide


(Dr. B. C. Melinamath)

Head, CSE Dept.



(Dr. B. P. Ronge)
Principal



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CERTIFICATE

*This is to certify that the Mini project entitled
"Online Quiz"
has been submitted by*

Project Group No.:- 11

- 1) Yogita Shivaji Masal
- 2) Akanksha Avadhut Patil
- 3) Snehal Saudagar Khatal
- 4) Priyanka Vitthal Kharade

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(Prof. S. A. Shegdar)

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(Dr. B. C. Melinamath)

Head, CSE Dept.

(Dr. B. P. Ronge)
Principal



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CERTIFICATE

*This is to certify that the Mini project entitled
"Login using Image Uploading"
has been submitted by*

Project Group No.:- 12

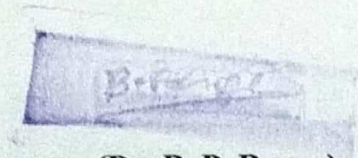
- 1) Rutuja Sanjay More
- 2) Snehal Shivaji Kasabe
- 3) Pornima Ajit Rajurkar
- 4) Sayali Tanaji Magar

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laid by the Punyashlok Ahilyadevi Holkar Solapur University, Solapur
during the academic year 2019-2020.*

N.D. Deval
(Prof. N. D. Deval)

Project Guide

B. C. Melinamath
(Dr. B. C. Melinamath)
Head, CSE Dept.



(Dr. B. P. Ronge)
Principal



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CERTIFICATE

*This is to certify that the Mini project entitled
"Music Player Android App"
has been submitted by*

Project Group No.:- 13

- 1) Manisha Babasaheb Akhade
- 2) Anuja Ramdas Bhange
- 3) Snehal Tanaji Bhusare
- 4) Soyarabai Uttareshwar Patil
- 5) Dhanashri Rajendra Ambure

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(Prof. S. S. Bhosale)

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(Dr. B. C. Melinamath)

Head, CSE Dept.

(Dr. B. P. Ronge)

Principal



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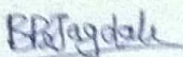
CERTIFICATE

*This is to certify that the Mini project entitled
"Housing Price Prediction using Machine Learning"
has been submitted by*


Project Group No.:- 14

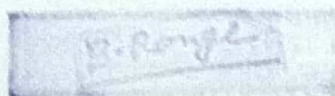
- 1) Ashutosh S. Jawanjal
- 2) Satyajit A. Kale
- 3) Nana B. Chavan
- 4) Kuldip K. Raut
- 5) Swapnil L. Vasekar

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laid by the Punyashlok Ahilyadevi Holkar Solapur University, Solapur
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(Prof. B.B. Jagdale)

Project Guide


(Dr. B. C. Melinamath)
Head, CSE Dept.



(Dr. B. P. Ronge)
Principal



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CERTIFICATE

*This is to certify that the Mini project entitled
"Spirit Website"
has been submitted by*

Project Group No.:- 15

- 1) Satyam H. Khandekar
- 2) Suraj S. Patil
- 3) Malhar P. Urade
- 4) Swarit Bhandari
- 5) Amol S. Anuse

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laid by the Punyashlok Ahilyadevi Holkar Solapur University, Solapur
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(Prof. P. G. Gaikwad)

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(Dr. B. C. Melinamath)

Head, CSE Dept.

(Dr. B. P. Ronge)
Principal



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SVERI's COLLEGE OF ENGINEERING, PANDHARPUR.

CERTIFICATE

*This is to certify that the Mini project entitled
"Lab automation by using IOT"
has been submitted by*

Project Group No.:- 16

- 1) Prachi Gurav
- 2) Sneha Shinde
- 3) Kranti Siddhaganesh
- 4) Revati Aadhlunge
- 5) Sujata Birajdar

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(Prof. R. B. Kagade)

Project Guide

(Dr. B. C. Melinamath)

Head, CSE Dept.

(Dr. B. P. Ronge)
Principal



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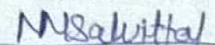
CERTIFICATE

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"Alzheimer's Disease Early Detection using Machine
Learning"
has been submitted by*

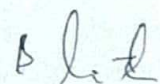
Project Group No.:- 17

- 1) Pravin Shedbale
- 2) Sushant Kumbhar
- 3) Sandesh Narkar
- 4) Deepak Sakhare
- 5) Sumeet Mulge


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laid by the Punyashlok Ahilyadevi Holkar Solapur University, Solapur
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(Prof. N. N. Salvithal)

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Head, CSE Dept.


(Dr. B. P. Ronge)
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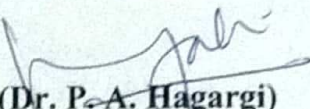
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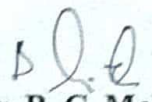
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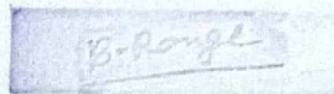
Project Group No.:-18

- 1) SandeshKoli
- 2) DhavalKhobare
- 3) AmolSalunke
- 4) ShubhamKalpagar

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laid by the PunyashlokAhilyadeviHolkarSolapur University, Solapur during
the academic year 2019-2020.*


(Dr. P. A. Hagargi)
Project Guide


(Dr. B. C. Melinamath)
Head, CSE Dept.



(Dr. B. P. Ronge)
Principal



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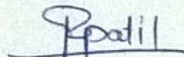
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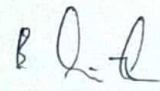
*This is to certify that the Mini project entitled
"Hotel Management System App"
has been submitted by*


Project Group No.:- 19

- 1) Shivani Shende
- 2) Srushti Dindore
- 3) Gayatri Dixit
- 4) Shraddha Padwal

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laid by the Punyashlok Ahilyadevi Holkar Solapur University, Solapur
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(Prof. R. M. Shinde)
Project Guide


(Dr. B. C. Melinamath)
Head, CSE Dept.



(Dr. B. P. Ronge)
Principal



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CERTIFICATE


*This is to certify that the Mini project entitled
"Online shopping front end work remainng to the tune of
20%"*

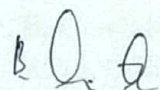
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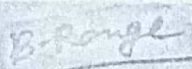
Project Group No.:- 20

- 1) Aishwarya Metkari
- 2) Bhagyashri Waghmode
- 3) Shivani Swami
- 4) Prajкта Asabe
- 5) Seema Raut

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(Prof. S. V. Darshane)
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(Dr. B. C. Melinamath)
Head, CSE Dept.


(Dr. B. P. Ronge)
Principal



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CERTIFICATE

*This is to certify that the Mini project entitled
"Student management system"
has been submitted by*

Project Group No.:- 21

- 1) Yogita Athawale
- 2) Chandani Bhoi
- 3) Ankita Bhoite
- 4) Sakshi Mandwale

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laid by the Punyashlok Ahilyadevi Holkar Solapur University, Solapur
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(Prof. A. A. More)
Project Guide

(Dr. B. C. Melinamath)
Head, CSE Dept.

(Dr. B. P. Ronge)
Principal



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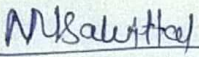
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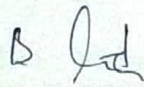
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"mCricket IOT Based Demonstration Platform"
has been submitted by*

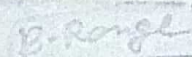
Project Group No.:- 22

- 1) Dhananjay Mane
- 2) Rajat Gupta
- 3) Raviraj Sawant
- 4) Sanjay Honmane
- 5) Abhishek Alagi

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(Dr. B. C. Melinamath)
Head, CSE Dept.


(Dr. B. P. Ronge)
Principal



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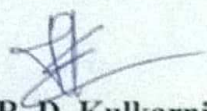
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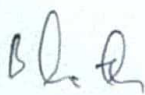
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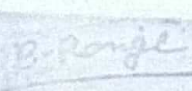
Project Group No.:- 23

- 1) Sneha Pandit
- 2) Harshda Bhandare
- 3) Punam Sutar
- 4) Anu Jare

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(Prof. R. D. Kulkarni)
Project Guide


(Dr. B. C. Melinamath)
Head, CSE Dept.



(Dr. B. P. Ronge)
Principal



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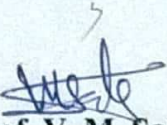
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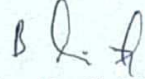
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"Online Banking System"
has been submitted by*

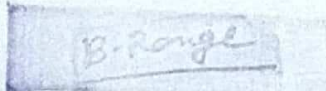
Project Group No.:- 24

- 1) Patil Nikita
- 2) Mundhe Bhagyashri
- 3) Khadake Shubhangi

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(Prof. V. M. Sale)
Project Guide


(Dr. B. C. Melinamath)
Head, CSE Dept.



(Dr. B. P. Ronge)
Principal



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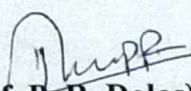
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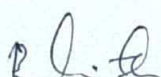
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"UniOS Application"
has been submitted by*

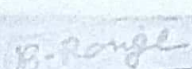
Project Group No.:- 25

- 1) Mamta jangid
- 2) Kavita Pardeshi
- 3) Vaishnavi Bhogawakar
- 4) Chandanshive Pratiksha

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(Dr. B. C. Melinamath)
Head, CSE Dept.


B. Ronge

(Dr. B. P. Ronge)
Principal



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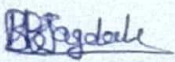
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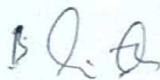
*This is to certify that the Mini project entitled
"Student results management system"
has been submitted by*


Project Group No.:- 26

- 1) Snehal Patil
- 2) Dipali Jadhav
- 3) Pooja Sarvade
- 4) Pooja Beldar

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(Prof. B. B. Jagdale)
Project Guide


(Dr. B. C. Melinamath)
Head, CSE Dept.


(Dr. B. P. Ronge)
Principal



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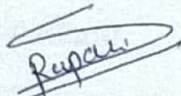
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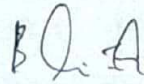
*This is to certify that the Mini project entitled
"Android Jewelry Album App"
has been submitted by*

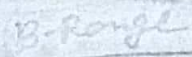
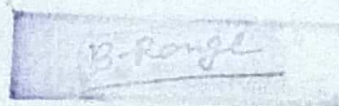
Project Group No.:- 27

- 1) Swapnali Patil
- 2) Sumaiyya Maneri
- 3) Pranoti Sarvagod
- 4) Komal Kadlaskar
- 5) Dipali Ligade

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(Prof. R. R. Shinde)
Project Guide


(Dr. B. C. Melinamath)
Head, CSE Dept.

(Dr. B. P. Ronge)
Principal



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CERTIFICATE

*This is to certify that the Mini project entitled
"Online Shopping"
has been submitted by*

Project Group No.:- 28

- 1) Pallavi Pangudwale
- 2) Snehal Swami
- 3) Swati Shivsharan
- 4) Gawali Priyanka
- 5) Supriya Jadhav

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(Prof. A. S. Pathan)

Project Guide

(Dr. B. C. Melinamath)

Head, CSE Dept.

(Dr. B. P. Ronge)
Principal



SVERI's COLLEGE OF ENGINEERING, PANDHARPUR.

CERTIFICATE

*This is to certify that the Mini project entitled
"Agroweb Website Development"
has been submitted by*

Project Group No.:- 29

- 1) Snehal Pise
- 2) Pratiksha Gaikwad
- 3) Rajshree Gaikwad
- 4) Shravani Gaikwad

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laid by the Punyashlok Ahilyadevi Holkar Solapur University, Solapur
during the academic year 2019-2020.*

(Prof. H. M. Tamboli)

Project Guide

(Dr. B. C. Melinamath)

Head, CSE Dept.

(Dr. B. P. Ronge)
Principal



SVERI's COLLEGE OF ENGINEERING, PANDHARPUR.

CERTIFICATE

*This is to certify that the Mini project entitled
"Rainfall Prediction System."
has been submitted by*

Project Group No.:- 30

- 1) Puneet Sawhaney
- 2) Aditya Dhaygude
- 3) Kanifnath Dake
- 4) Sagar Barle

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during the academic year 2019-2020.*

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(Prof. G.G. Patil)

Project Guide

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(Dr. B. P. Ronge)
Principal



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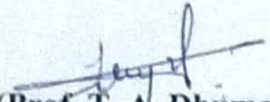
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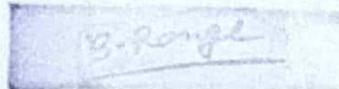
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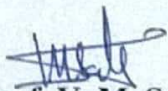
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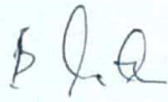
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SVERI's
College of Engineering, Pandharpur
Department of Computer Science &
Engineering
B.E. Project Sample Report
A.Y.: 2019-2020

A
Project Report on
“Home-made Craft Website”
Submitted to,

Department of Computer Science & Engineering

By,

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In partial fulfillment for the award of the degree
of



SHRI VITHAL EDUCATION and RESEARCH INSTITUTES's, COLLEGE OF
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AFFILIATED TO PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR
UNIVERSITY, SOLAPUR

2019-20

Abstract

Homemade craft website is totally related with the selling and marketing of the craft products. This is a small scale project for Online homemade craft / shopping system. The basic idea is that customers can buy products using online system. The Online homemade craft Shopping system enables vendors to set up online products with sections. We are providing the products section wise. So the customers can browse through the sections. The aim of this project is on the online shopping application it is developed using HTML5, Java script, CSS, PHP. The agenda is designing an online shopping site to manage the items in the shop and also help customers purchase them online without having to visit the shop physically. Our online shopping system will use the internet as the sole method for selling items to its consumers. Shopping will be highly personalized and the system will provide lower prices than most competitors. It is an online store that enables website owners to sell their product online. It is a web shopping cart that web enables the day-day sales functions. It includes product and customer management modules. This website will be useful to anyone who wants to purchase items using internet. We are going to store the data in our database. So that in case of any query it will be easily retrieved.

SYNOPSIS

1.Synopsis of Project Work :

a) Relevance:

Now a days internet makes the things much easier and faster. Its led to changes in the way people do business with a rapidly growing worldwide trend towards online shopping or e-commerce. Online shopping is considered to be a very helpful way of buying products through the internet especially during the holidays and clearance seasons. It allows customers to enjoy a wide variety of products and items not only from specific stores but also from a diverse storage that includes all kinds of items. Online shopping also provides customers with a good customer service that also occurs online.

b) Present theories and practices:

i Amazon :

Amazon(Amazon.com) is world's largest online retailer and a prominent cloud service provider. The company was originally a book seller but has expanded to sell a wide variety of consumer goods and digital media as well as its own electronic devices such as the kindle e-book reader. Kindle fire table and Fire TV , a streaming media adapter, etc.

ii Flipkart :

Today Flipkart is Indias largest online e-commerce website. Flipkart was started in 2007 and recently it also acquired an online fashion e-commerce Store Mantra for 300 Million. The annual revenue of Flipkart is Rs. 5000 crores. In the world ,among the top 100 websites, Flipkart is ranked 82nd by Alexa, and 7th position as in India.

c) Proposed work :

i. Scope of project :

- A. The scope of Home-made craft website is to sell the craft products.
- B. User can directly contact with the admin.
- C. Payment can be done by online ways as well as cash on delivery is also available.
- D. It will perform the required task of finding customers and clients information in easiest way.

ii. Objectives :

The main objective of this website is it enables user for buying the products and also they can get the items as per their requirement. Various types of products such as decorative pieces, beauty products, crochet etc. are available in this website.

A. Storing Customer Details and Display Our Pride Customers:

Our website stores the all information about customers, also stores the information about the blood donors and display the pride customers.

B. User Friendly:

The website will be more user friendly as compared to other systems. To develop an easy to use web based interface where user can search for products, view a complete description of the products and can order for the products. A user can view the complete specification of the product along with various images. They can also write their feedback about product.

C. Phase wise Proposed Work:

Phase I	Phase II
Finalizing project topic	Coding
Requirement Collection	Database Connectivity
Design the modules	Testing and Validation
Database Design	

2.Facilities Available:

- a) Internet
- b) Required configured machine
- c) Required software

3.Approximate expenditure:

- a) Domain Cost → Rs 999/-
- b) Web Hosting → Rs 2500/-

Table of Contents

Title Page	i
Certificate	ii
Acknowledgement	iii
Abstract	iv
Synopsis	v
Table of Contents	viii
Abbreviations	x
List of Figures	vii
List of Tables	viii
1 INTRODUCTION	1
1.1 Introduction	3
1.2 Need of Work	4
1.3 Objective	5
1.3.1 Storing Customer Details:	5
1.3.2 User Friendly:	5
2 LITERATURE SURVEY	6
2.1 Existing System	6
2.2 Problem Definition	7
2.3 Proposed System	7
2.3.1 System Architecture	8
2.3.2 Modules to be Implement	10
2.4 Advantageous of Proposed System	18
3 SYSTEM ANALYSIS AN DESIGN	
3.1 Requirement Specification	19

3.1.1 Non Functional Requirements	19
3.1.2 Functional Requirements	20
3.2 UML Diagrams	22
3.2.1 ER Diagrams	25
3.2.2 Data Flow Diagram	26
3.3 Design and Test Steps / Criteria	29
3.4 Testing Process	31
4 METHODOLOGY/ TECHNIQUE USED	33
4.1Development Tools	33
4.2Database Schema	35
5 EXPERIMENTAL RESULTS / OUTPUTS	39
6 CONCLUSIONS AND FUTURE SCOPE	46
References	47
Paper Publication Certificate/s	49
Paper	53

Abbreviation

HTML → Hyper Text Markup Language

CSS → Cascading Style Sheets

PHP → Personal Home page

DFD → Data Flow Diagram

DBMS → Database Management System

ER → Entity Relationship

RDBMS → Relational Database Management System

SQL → Structured Query Language

URL → Uniform Resource Locator

UML → Unified Modeling Language

WWW → World Wide Web

List of Figures

2.1 System Structure of Admin	9
2.2 System Structure of User	10
2.3 User Module	12
2.4 Admin Module	14
2.5 Manage Product	14
2.6 Manage User	14
2.7 Manage Order	16
3.1 Login	22
3.2 User Details	23
3.3 Product Details	24
3.4 Product Order	24
3.5 ER Diagram	25
3.6 Context Level Diagram	26
3.7 DFD Level 0 Diagram	27
3.8 DFD Level 1 Diagram	27
4.1 Database Tables of Products, Category and Customer	34

List of Tables

4.1 User Registration	35
4.2 Order Information	36
4.3 Add to Cart	36
4.4 Order Products	37
4.5 Products	37
4.6 Feedback and Suggestion	38

Chapter 1

1 INTRODUCTION

1.1 Introduction

Shopping has been considered a recreational by many. The goal of this website is to develop web based interface for online retails. The system would be easy to use and hence make the shopping experience pleasant for the users.

The goal of this website is:

- To develop an easy to use web based interface where user can search for craft, view a complete description of the crafts and order the craft.
- Drag and Drop feature which would allow the users to add a product to or remove a product from the shopping cart by dragging the product in to the shopping cart or out of the shopping cart.
- A user can view the complete specification of the product along with various images and also view the customer review of the product. They can also write their own review.

In today's world, people don't have time for their personal needs. The innovation is fast to the point that anybody can do anything by simply sitting in a room. So, it is an imperative issue as per observation. The internet is the way that helps a person in all aspects. In the event that somebody wish to purchase and view things, they can purchase online with the assistance of web. Commercial centers like Flipkart, Amazon and Snapdeal are giving gigantic chances to youthful understudies, housewives just as little shop

proprietors to scale their organizations and win great cash [1] [13]. Not with standing, there are different variables that one needs to take a gander at before beginning up an online business. Setting up an online shop to move your items can be a valuable and beneficial method for working together.

It enables you to work without fundamentally requiring a conventional shop front and gives your clients greater adaptability since they can purchase your items whenever of the day. Web based moving can likewise widen your client base, as you can pitch to individuals who are interstate or abroad. Internet shopping doesn't speak to everybody, so ensure your objective market is OK with purchasing on the web before you begin. You may discover you can achieve more clients by offering web based shopping close by a customary shop. Web based shopping makes utilization of advanced innovation for dealing with the stream of data, items, and instalment between shopper, website proprietors and providers.

1.2 Need of the Work

There are large numbers of commercial Online Shopping Websites offering large number of products tailored to meet the shopping interests of large number of customers. These online marketplaces have thousands of products listed under various categories.

Shopping has been considered a recreational by many. Online shopping no exception. The goal of this website is to develop web based interface for online retails. The system would be easy to use and hence make the shopping experience pleasant for the users.

Problem: The basic problems with the existing systems are the non-interactive environment they provide to users. The use of traditional user interface which make continuous post to the server. Each post back makes a call to server, gets the response and then refreshes the entire web form to display the result. This scenario adds an extra trade off causing a delay in displaying the results.

- Use of traditional and non-user friendly interfaces that are hard to use.

Solution:

- The Motive of this Online Shopping Website is to allow the user for Online Shopping.
- Provide Interactive interface through which a user can interact with different areas of website easily.

1.3 Objectives:

The main objective s of the website to overcome the drawbacks of the existing and some advantages of new system is as follows:

1.4.1 Storing Customer Details:

Our website stores the all information about customers. Because now a days it essential to know about our clients.

1.4.2 User Friendly:

The new website is more user friendly as user can contact with admin if any issue occurs.

Chapter 2

LITURATURE SURVEY

- **Existing System**

E-Commerce software can be used to manage your online store and handle aspects such as adding and removing products, tracking inventory, calculating taxes and other work required to fulfill orders placed on the website. Currently most popular systems are discussed as follows:

- 1. Amazon:**

Amazon (Amazon.com) is the world's largest online retailer and a prominent cloud service provider. The company was originally a book seller but has expanded to sell a wide variety of consumer goods and digital media as well as its own electronic devices, such as the Kindle e-book reader, Kindle Fire tablet and Fire TV, a streaming media adapter, etc.

- 2. Flipkart:**

Today, Flipkart is India's largest online e-commerce website. Flipkart was started in 2007 and recently it also acquired an online fashion e-commerce store Mantra for 300 Million. The annual revenue of Flipkart is Rs. 5000 crores. In the world, among the top 100 websites, Flipkart is ranked 82nd by Alexa, and 7th position as in India.

2.2 Problem Definition

Purchasing and selling products offline, then you will restrict to sell the products in limited area where the shop is located. While purchasing any product customer have to visit many websites for price, feature comparison, delivery time and availability of product. Customer generally suffer from unnecessary notification and redirection.

2.3 Proposed System

We are going to provide solution to address this issue through online website. We have considered home made craft products also we are going to provide facilities to user so that they can give feedback for the product. The details of design and implementation is discussed in the successive sections.

A. Modular Design

The functionality of the proposed application is divided into number of sub modules. The modules to be taken into account are customer shopping cart, orders, payment and product module. These modules while integrated together give the functionality desired out of the application.

B. Customer

In this module the client information is processed. This information includes giving username and password to login to this site. This is required to verify the user. The email id of the customer is used to confirm the customers' orders and also to send promotional emails [10].

C. Shopping Cart

This sub-module lets the user to select the items that they intend to buy to store in cart before placing the order. The items can be stored into the cart and it can be deleted from the cart.

D. Order

In this module customer order is processed. The user can place the order for the items they want to buy. It verifies the pin code and it confirms the order to delivered place. At the shipping address the product should be delivered.

E. Payment

In this sub module payment options for the order is given and processed. Payment would be through credit card, debit card, E-cash or cash on delivery. The total charges of the product are the sum of cost of the product and delivery charges will be deducted from the users account in case of payment options other than cash on delivery.

F. Product

In this module product details can be added to the database. The tax per product and actual price of the products can be added. The product details can be edited by admin. The products are stored as per category. Arrangement of products into categories enables the user to search the products based on its category. The database is normalized [13] so that the redundancy is minimized. The database for the proposed application is normalized up to third normal form

2.3.1 System Architecture

The Admin side DFD [2][3] describe the functionality of Admin. Admin is an owner of the website. Admin can add category of item and then add items by category wise and admin can manage order and payment detail. The Customer side DFD describe the functionality of Customer. Customer should login with correct credentials.

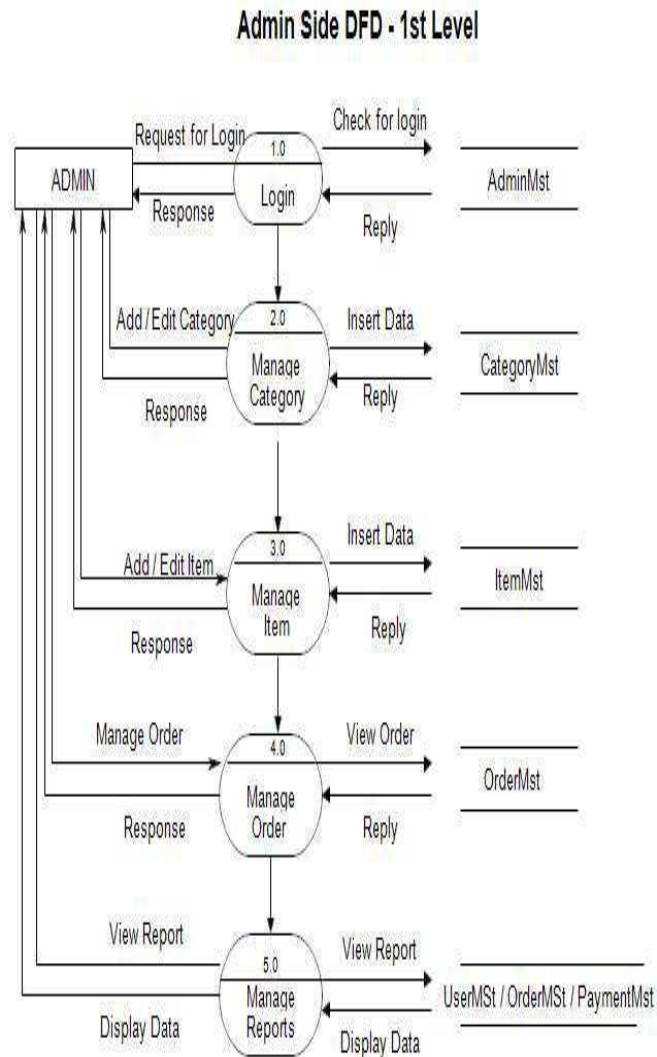


Figure 2.1: System Structure of Admin

The Customer side DFD describe the functionality of Customer. Customer should login with correct credentials. Customer select the product as per their requirements specification, description. Then it should place the order through the payments. Customer can pay the payment through net banking credit card, debit card and cash on delivery.

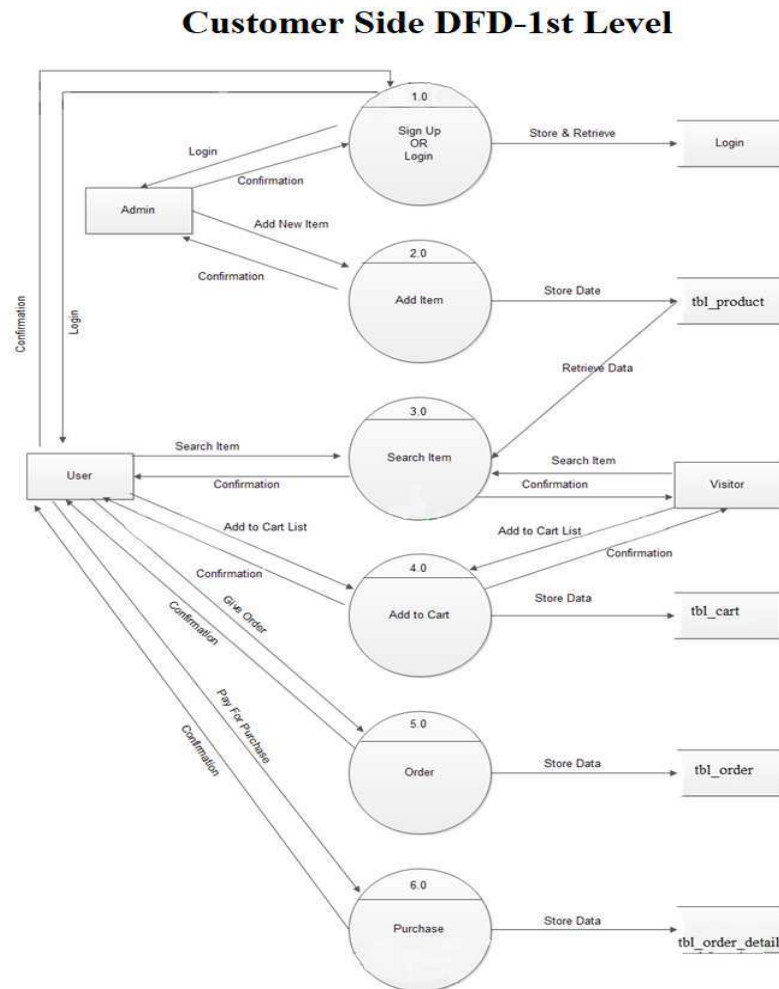


Figure 2.2: System Structure of User

2.3.2 Modules to be implement

The website design in this project needs a web browser and a database for implementation at the server side and only a web browser at the client side. The user types the URL corresponding to the website so that they can easily get it Web server

accepts the incoming HTTP requests and returns the requested information in an HTTP response. The application is developed using HTML as, and MYSQL workbench as the back end.

Integrating the website and the database:

Customers ordering the products from an e-commerce website should be able to get the information of products, ask questions, review, and give feedback on the products, select the products they would like to buy, submit payments. Admin should be able to keep track of the products ordered, payment details, customer inquiries. So a well-organized database is very essential for maintenance of an e-commerce website. The user must be able to access the data base and for this the remote database connectivity is established. The user information is stored in and retrieved from the remote database. The database used in this paper is MYSQL Server.

Webpage design:

The web pages are designed in HTML and Java Script [8][9]. The web pages should be dynamic in nature as the user should be able to access the product details, make payment, post feedback, etc. The static web pages are used for displaying the product description, privacy policy and so on. ASP is used as middle tier that establishes the necessary connection with the database to retrieve the information from the remote database.

1. User Account Module:

User accounts the executive's module keep up the data pretty much every one of the users like location, contact no, their past item decisions and so forth. This data is exceptionally valuable for fruitful online business advertise.

Enable Account Login a customer login is created (associated with the email address of the customer) to login to their account dashboard to access past orders and downloads, and to make future checkouts faster and easier. During checkout, clients set a password to access their account. They can then login to their account on the stores account page with their email address and their specified password.

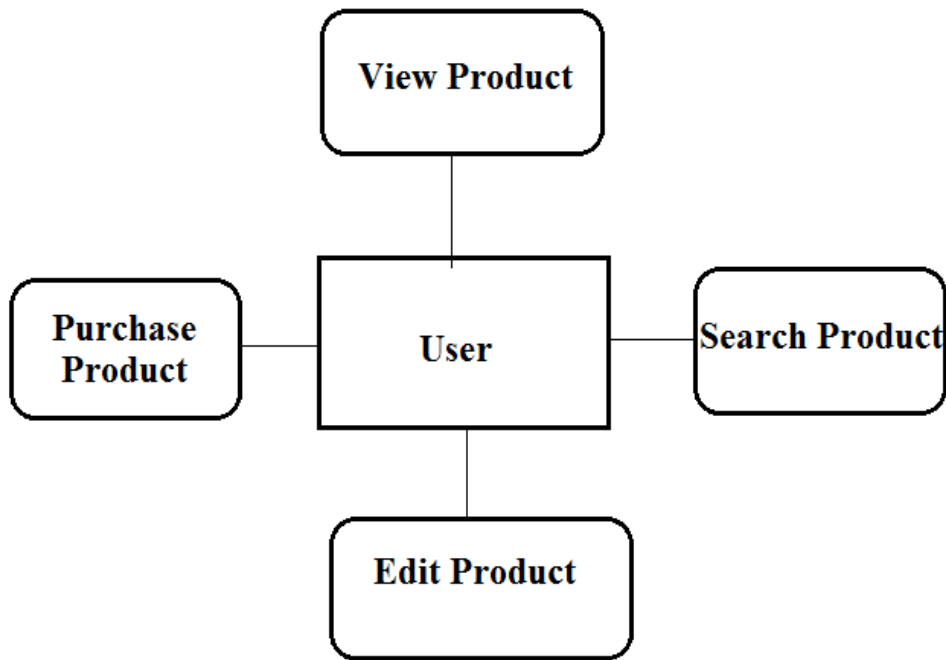


Figure 2.3: User Module

- **Registration**

A new user will have to register in the system by providing essential details in order to view the products in the system. The admin must accept a new user by unblocking him.

- **Login**

A user must login with his user name and password to the system after registration.

- **View Products**

User can view the list of products based on their names after successful login. A detailed description of a particular product with product name, products details, product image, price can be viewed by users.

- **Search Product**

Users can search for a particular product in the list by name.

- **Add to cart:**

The user can add the desired product into his cart by clicking add to cart option on the product. User can view his cart by clicking on the cart button. All products added by cart can be viewed in the cart. User can remove an item from the cart by clicking remove.

- **Submit Cart:**

After confirming the items in the cart the user can submit the cart by providing a delivery address. On successful submitting the cart will become empty.

2. Admin Account Module:

The administrator is the super user of this website. Only admin have access into this admin page. The administrator has all the information about all the users and about all products.

This module is divided into different sub-modules.

- Manage Products
- Manage Users
- Manage Orders

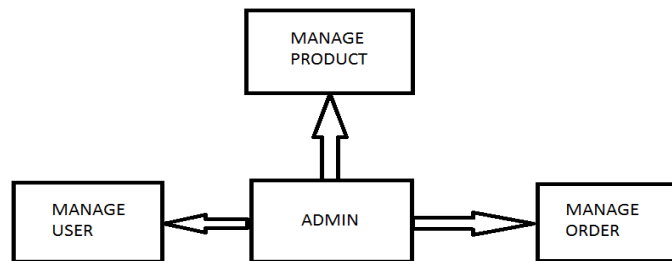


Figure 2.4 :Admin module

A. Manage Module

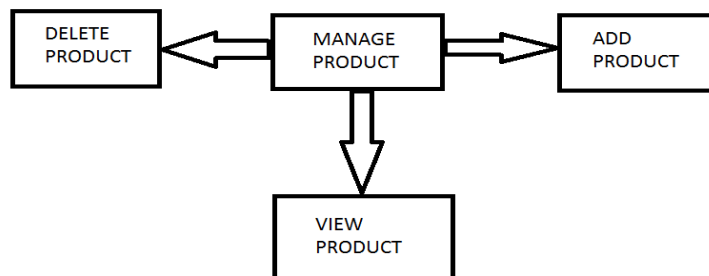


Figure 2.5 : Manage Products

- **Add Products**

The shopping cart project contains different kind of products as shown in fig 2. The products can be classified into different categories by name. Admin can add new products into the existing system with all its details including an image.

- **Delete Products**

Administrator can delete the products based on the stock of that particular product.

- **Search products**

Admin will have a list view of all the existing products. He can also search for a particular product by name.

- **View Users**

The admin will have a list view of all the users registered in the system. Admin can view all the details of each user in the list except password.

- **Add Users**

Admin has privileges to add a user directly by providing the details.

C. Manage Orders :

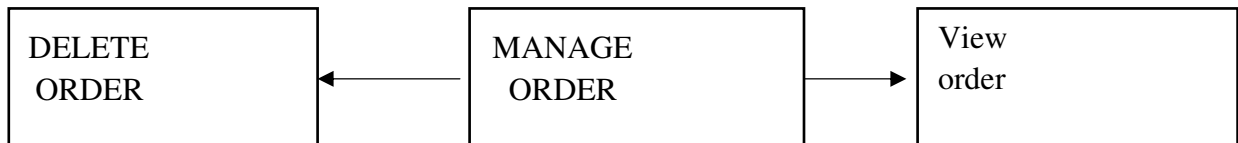


Figure 2.6 Manage Order

- **View Order**

Administrator can view the Orders which is generated by the users. He can verify the details of the purchase.

- **Delete order**

Admin can delete order from the orders list when the product is taken for delivery.

Working:

The administrator is given the benefits to change and refresh the database. The administrator includes new items, settles on the ideas on certain items. The items that are not sought after can be for all time erased from the database which implies that the closeout of those items on the site is ceased. The seller subtleties, installments to the merchant are to be taken consideration by the administrator. The transportation subtleties, for example, the regions where the delivery offices are accessible, the subtleties of the delivery organizations and the exchange between them are to be checked. The administrator can choose the money down office to make accessible in all territories or limit to certain regions as it were. The reports of the regular deal, benefit, the items are very on interest, etc. are produced according to the demand. The report age

isn't feasible for the client. A client suspected to have broken the protection strategy can be hindered by the administrator.

Promotional mails can be sent to the customer's e-mail id based on their address. The heuristics analysis is to be made on a particular customer to know their interests. So that only on those products, the promotional mails can be sent to that customer.

The customer accesses the website by typing the URL corresponding to the website. The user can request for product details by clicking the products menu. The user is provided with two types of wish lists on site wish list and off site wish list. In the list the user is allowed to add any product available on the site to the list.

The customer should sign up for the first time to place order of a product. Later each time user to buy products he should login. The wish list of the user can be maintained if and only if the user has an account in the database. The product that user want to buy will be added to the cart, and if user to see some more products he can continue while one or more products are on the cart. The order of the products is placed from the cart. The products in the cart can be removed, more products can be added. Once the order is placed the next step would be to give the order details. The user is asked to type his address, mobile number and pin code. Pin code is used to check the availability of the shipping service to given place.

The next step is payment. The payment can be done through credit card, debit card, pay pal and cash on delivery. If the user wants to make the payment via credit card or debit card, then the card details are asked. Once the user enters the card details the user is directed to a payment gateway for the transaction. Once the order is placed then mail will be send to the user.

The user is informed via e-mail while the order is processed, shipped, and delivered at the destination. The user will be given an order id which will help in tracking the order. The order can be cancelled before it is being shipped. The return policy is specified by the admin. The recently viewed products are displayed on the user's home page. The user can assign rating to products, review the products and give feedback. The purchase history of the user is maintained.

2.4 Advantages of Proposed System

1. Providing useful information and developing the products according to user requirement
2. Direct contact with admin
3. No need to login for viewing the products
4. Easy to handle
5. Make System Configuration as per requirement.
6. Create System Configuration and use later selling purpose.
7. Quickly creating database backup.
8. Customize bill that you want.
9. Create estimates and later convert into bills.
10. Manufacturing's Administration.
11. Server database provide and protected from unauthorized modification.
12. Selling quickly and efficiently

Chapter 3

SYSTEM ANALYSIS AND DESIGN

System analysis is the process of gathering and interpreting facts, diagnosing problems and using the information to recommend improvements on the system. System analysis is a problem solving activity that requires intensive communication between the system users and system developers.

System analysis or study is an important phase of any system development process. The system is viewed as a whole, the inputs are identified and the system is subjected to close study to identify the problem areas. The solutions are given as a proposal. The proposal is reviewed on user request and suitable changes are made. This loop ends as soon as the user is satisfied with the proposal.

3.1 Requirement Specification

3.1.1 Non Functional Requirements

i Efficiency Requirements

When an online shopping cart website implemented customer can purchase product in an efficient manner.

ii Reliability Requirements

The system should provide a reliable environment to both customers and owner. All orders should be reaching at the admin without any errors.

iii Usability Requirements

The website is designed for user friendly environment and ease of use.

iv Implementation Requirements

Implementation of the system using CSS and html in front-end with HTML5 and CSS. PHP will be used for database connectivity. And the database part is developed by MYSQL. Responsive web designing is used for making the website compatible for any type of screen.

3.1.2 Functional Requirements

I. User

• User Login

Description of feature

This feature used by the user to login into system. A user must login with his user name and password to the system after registration. If they are invalid, the user not allowed to enter the system.

Functional requirement

- Username and password will be provided after user registration is confirmed.
- Password should be hidden from others while typing it in the field.

• Register New User

Description of feature

A new user will have to register in the system by providing essential details in order to view the products in the system. The admin must accept a new user by unblocking him.

Functional requirement

- System must be able to verify and validate information.
- The system must encrypt the password of the customer to provide security.

• **Purchasing an Item**

Description of feature

The user can add the desired product into his cart by clicking add to cart option on the product. He can view his cart by clicking on the cart button. All products added by cart can be viewed in the cart. User can remove an item from the cart by clicking remove. After confirming the items in the cart the user can submit the cart by providing a delivery address. On successful submitting the cart will become empty.

Functional requirement

- System must ensure that, only a registered customer can purchase items.

II. Admin

• **Manage User**

Description of feature

The administrator can add user, delete user, view user.

• **Manage Products**

Description of feature

The administrator can add product, delete product and view product.

- Manage Orders

Description of feature

The administrator can view orders and delete orders.

Functional requirement

- The system must identify the login of the admin.
- Admin account should be secured so that only owner of the shop can access that account.

3.2 UML Diagrams

3.2.1 ER Diagrams

• LOGIN

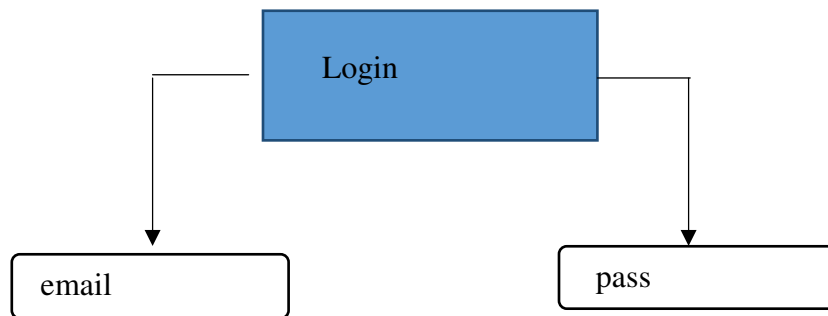


Figure 3.1: Login

- **USER DETAILS**

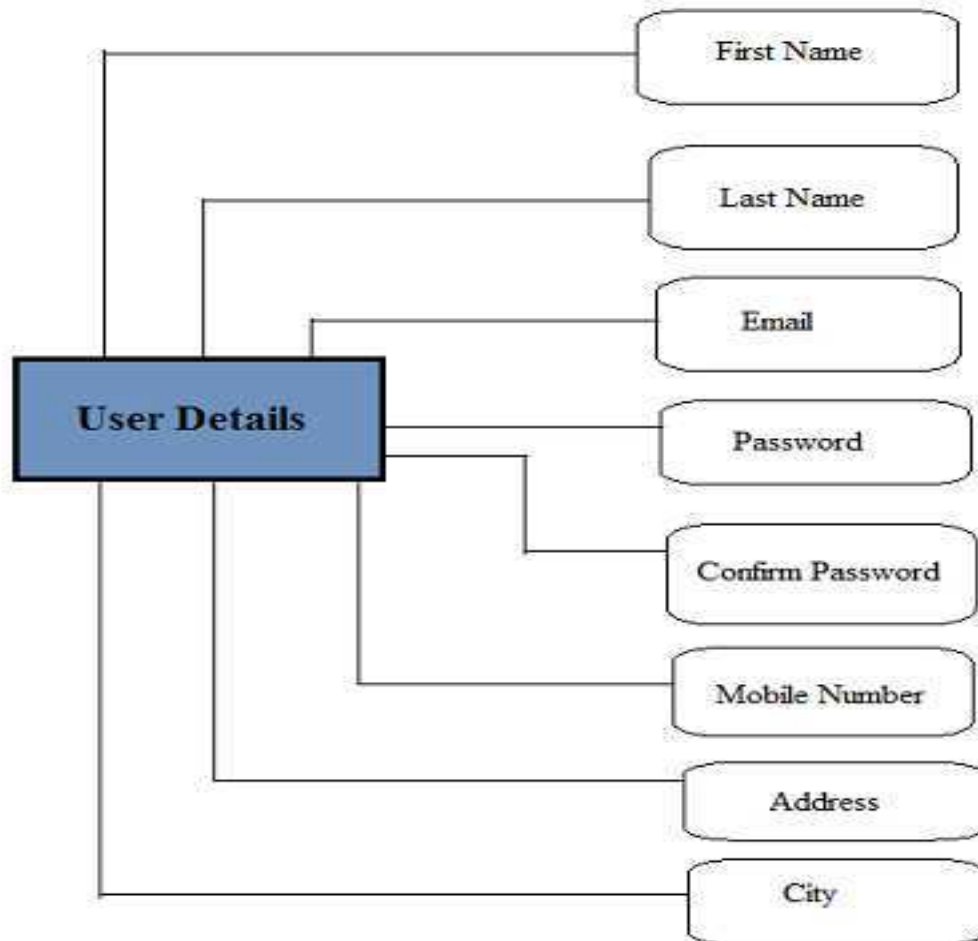


Figure 3.2: User Details

• PRODUCT DETAILS

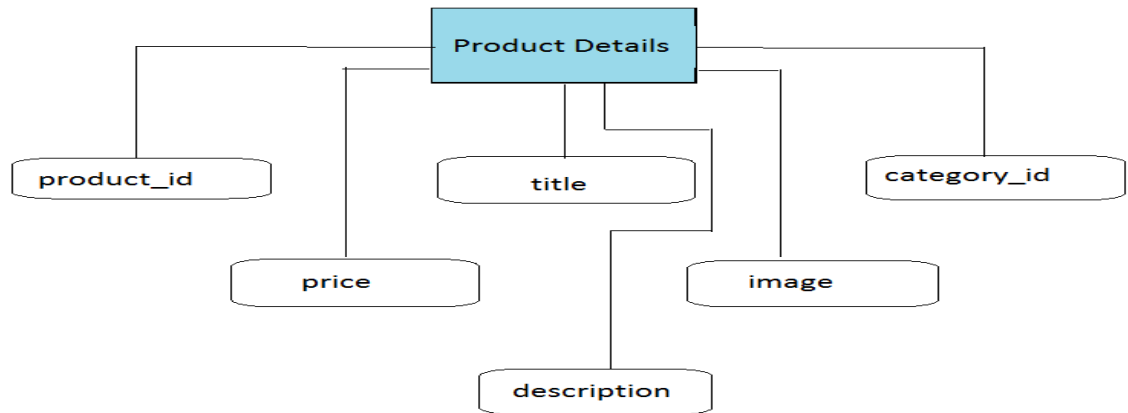


Figure 3.3: Product Details

• PRODUCT ORDERS

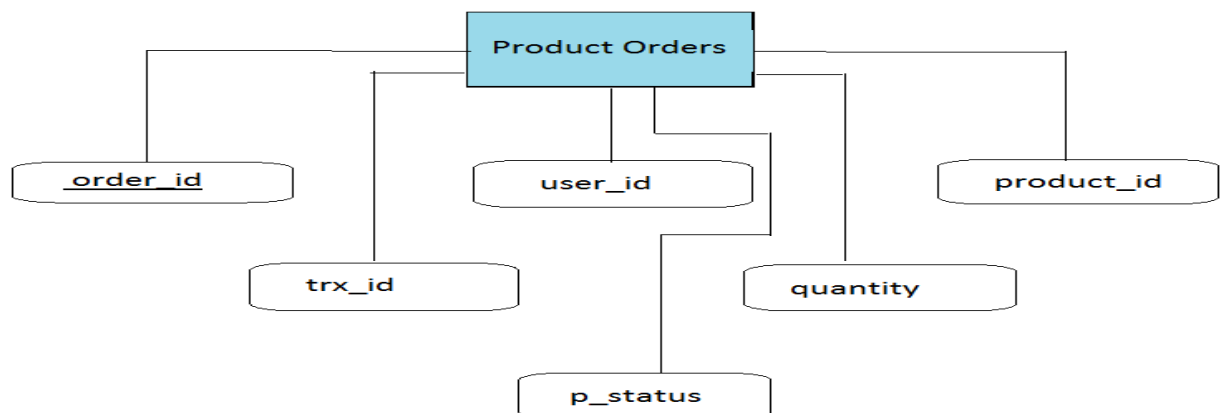


Figure 3.4: Product Orders

- ER Diagram

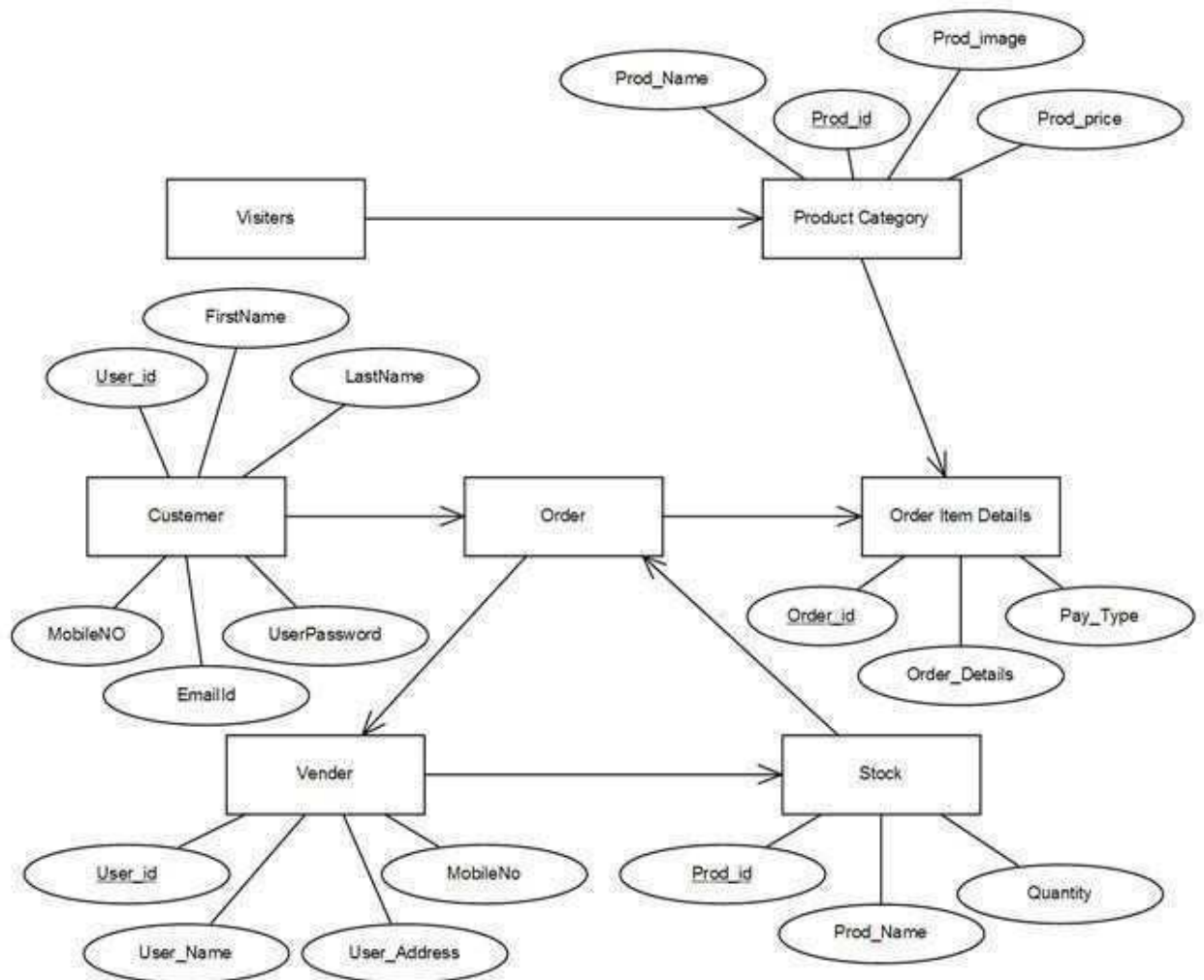


Figure 3.5: ER Diagram

3.2.2 Data Flow Diagram

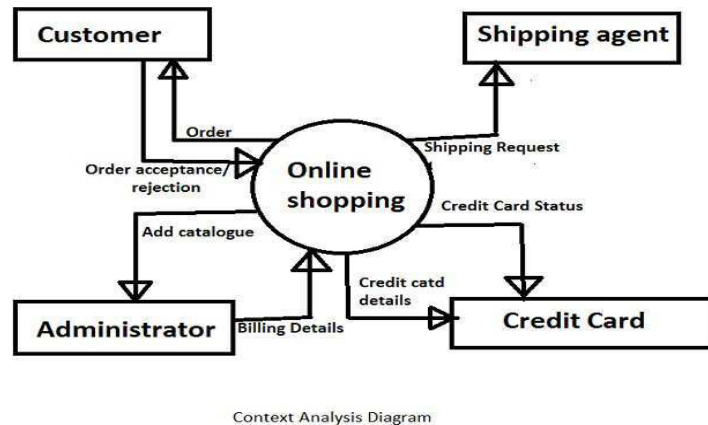
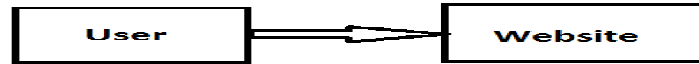


Figure 3.6: Data Flow Diagram

A Data Flow Diagram (DFD) is a structured analysis and design tool that can be used for flow charting. A DFD is a network that describes the flow of data and the processes that change or transform the data throughout a system. This network is constructed by using a set of symbols that do not imply any physical implementation. It has the purpose of clarifying system requirements and identifying major transformations. So it is the starting point of the design phase that functionally decomposes the requirements specifications down to the lowest level of detail. DFD can be considered to an abstraction of the logic of an information-oriented or a process-oriented system flow-chart. For these reasons DFDs are often referred to as logical data flow diagrams.

3.2.2.1 DFD Level 0 Diagram



^g
Figure 3.2.2.1: DFD Level 0 Diagram

The above diagram shows the 0th level of DFD. Customer visit to website then administrator check the customer is valid or not if valid then he can purchase. The customer validation done through login module, the product else register first. When the order is given, first check the stock is available or not if available then the order is approved by administrator. Then at the payment he chooses the online payment or cash on delivery. The receipt will be send to customer and record will be store in the database.

3.2.2.2 DFD Level 1 Diagram

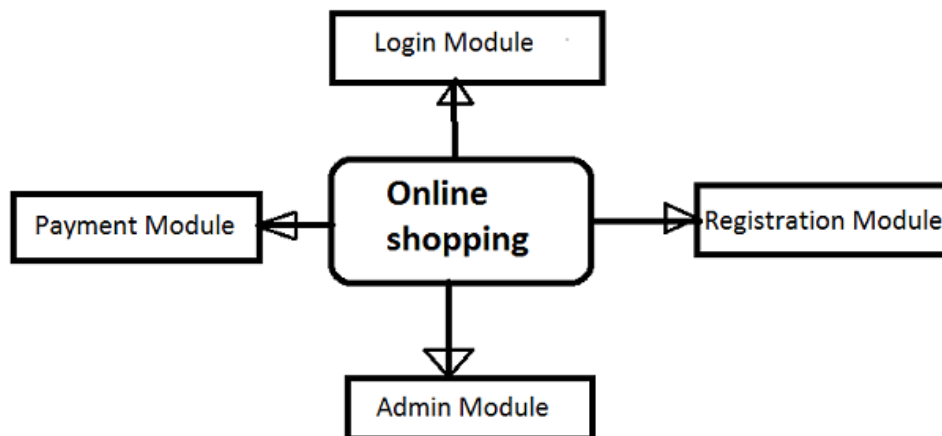


Figure 3.2.2.2: DFD Level 1 Diagram

The above diagram shows the first level of DFD. Customer visit to website then administrator check the customer is already existing or not if it is already existing then it gives valid access. Otherwise first he registers for website and then login through username and password. We can store the customer information like name, address, mobile no, email id etc. for the further communication.

EXTERNAL ENTITY

An external entity is a source or destination of a data flow. Only those entities which originate or receive data are represented on a data flow diagram. The symbol used is a rectangular box.

PROCESS

A process shows a transformation or manipulation of data flow within the system. The symbol used is an oval shape.

DATA FLOW

The data flow shows the flow of information from a source to its destination. Data flow is represented by a line, with arrowheads showing the direction of flow. Information always flows to or from a process and may be written, verbal or electronic. Each data flow may be referenced by the processes or data stores at its head and tail, or by a description of its contents.

DATA STORE

A data store is a holding place for information within the system: It is represented by an open ended narrow rectangle. Data stores may be long-term files such as sales ledgers, or may be short-term accumulations: for example, batches of documents that are waiting to be processed. Each data store should be given a reference followed by an arbitrary number.

3.3 Design and Test Steps / Criteria

A. General Test Cases

1. Verify that user is able to navigate through all the products across different categories.
2. Verify that all the links and banners are redirecting to correct product/category pages and none of the links are broken.
3. Verify that the company logo is clearly visible.
4. Verify that all the text - product, category name, price and product description are clearly visible.
5. Verify that all the images - product and banner are clearly visible.
6. Verify that category pages have relevant product listed specific to the category. 7. Verify that correct count of total products is listed on the category pages.
8. Search - Verify that on searching all the product satisfying the search criteria are visible on the search result page.
9. Search - Verify the more relevant product for the search term are displayed on the top for a particular search term.
10. Search - Verify that count of products is correctly displayed on the search result page for a particular search term.
11. Sorting - Verify that all the sort options work correctly - correctly sort the products based on the sort option chosen.
12. Sorting - Verify that sorting works correctly on the category pages.
13. Sorting - Verify that sorting works correctly on the search result page.

B. Product Buy Flow - Test cases

1. Verify that on the product page, user can select the desired attribute of the product e.g. size, color etc.
2. Verify that user can add to cart one or more products.
3. Verify that user can add products to add to cart.
4. Verify that user can buy products added to cart after signing in to the application (or as per the functionality of the website).
5. Verify that user can successfully buy more than one products that were added to his/her cart.
6. Verify that user cannot add more than available inventory of the product.
7. Verify that the limit to the number of products a user can buy is working correctly by displaying error message and preventing user from buying more than the limit.
8. Verify that the delivery can be declined for the places where shipping is not available.
9. Verify that Cash on Delivery option of payment is working fine.
10. Verify that the different prepaid methods of payments are working fine.
11. Verify that product return functionality works fine.

C. User Registration - Test cases

1. Verify that all the specified fields are present on the registration page.
2. Verify that the required/mandatory fields are marked with an asterisk against the field.
3. Verify that for better user interface dropdowns, radio buttons and checkboxes etc. fields are displayed wherever possible instead of just textboxes.
4. Verify the page has both submit and cancel/reset buttons at the end.
5. Verify that clicking submit button after entering all the required fields, submits the data to the server.
6. Verify that clicking cancel/reset button after entering all the required fields, cancels the submit request and resets all the fields.
7. Verify that whenever possible validation should take place at client side.
8. Verify that not filling the mandatory fields and clicking submit button will lead to validation error.

9. Verify that not filling the optional fields and clicking submit button will still send data to server without any validation error.
10. Check validation on date and email fields (only valid dates and valid email Ids should be allowed).
11. Check validation on numeric fields by entering alphabets and special characters.
12. Verify that leading and trailing spaces are trimmed.
13. Verify that after making a request to the server and then sending the same request again with the same unique key will lead to server side validation error.

3.4 Testing Process

1. Testing E-commerce Applications Functionality

An e-commerce web or mobile application has four important elements in its structure, and they are:

- **Main Pages: -**

Homepage, Product page, Services, Social Awareness, About Us page, Contact Us page etc.

- **Category / Product Type Pages: -**

The product page consists of options such as description, product image, net weight, quantity and price. There is sorting feature to filter out products based on description, price, size, etc. There is also Add to Cart feature present in the category pages.

- **Product Description Page: -**

Consists of product title, description, product images, related products, Add to Cart feature, Product comparison, additional product info, etc.

- **Shopping Cart: -**

Products list view, removing product from the list, cash on delivery option, select delivery option, card payment, pay now option, etc.

2. Testing E-commerce Application Workflow: -

The testing of the complete workflow of your e-commerce web/mobile application consists of:

- Login and Signup options
- Search functionality
- Add/remove functionality in the shopping cart
- Check out process
- Order number and invoice generation

3. Checking Compatibility with Web Browser: -

It is important for e-commerce applications to work on all types of web browsers such as Google Chrome, Firefox, Opera, Internet Explorer, Safari, etc. You need to test the browser compatibility of the application to make sure that your customers are able to use your e-commerce website without any hassle.

4. Testing for Mobile Responsiveness: -

Nowadays, mobile devices are taking over desktop platforms in terms of internet usage and companies are taking mobile-first approach in their e-commerce applications. You need to test the responsive design of your application in mobile devices of various screen sizes.

5. Other Common Things to be Tested: -

There are other common things in your e-commerce application you need to test and they include website content, webpage format, website accessibility, cookies, social buttons, adding/deleting content, removing/adding links, web standards, analytics, and making changes to shipping settings

Chapter 4

METHODOLOGY/ TECHNIQUES USED

4.1 Development Tools

The entire development process has been subdivided into two: the front end development and the backend development. The front end comprises of the visually visible parts such as the home page, admin panel, contact page, shopping cart page. The back end contains the database and its interaction with the front-end.

1. Front End Development:

The front end was initially raw coded using JavaScript. JavaScript is a client side scripting language which is a dedicated language for web development. JavaScript code was simply mixed with the Hypertext Mark- up Language (HTML) code. Hypertext mark-up language is the language used to design the web pages of an application. A static page is an HTML document that is stored on the web server and does not change.

This was performed by Cascading Style Sheet (CSS). CSS is a style sheet language used for describing the look and for- matting a document written in a mark-up language. These CSS files are linked with the class files with ASP extensions to put the panels in order, the text with correct font, size and color. JavaScript is a client side scripting language most commonly used as part of web browsers and its implementations allow client side scripts to interact with the user, control the browser and alter the document content which is displayed.

For example, in website for the client's registration, the system asks to provide their details which contains their name, email address, age, etc. If they missed any of the details, then immediately the browser asks them to fill the 31 particular field. This is implemented and handled by a JavaScript. Bootstrap programs are also introduced in for web application which supports creation of animations.

2. Backend Development:

The Database Management System (DBMS) provides support for the back end. The database management system is essentially software where admin can create the database, add, drop, alter and update tables. The tables can hold different types of data for example: integer, variable characters etc. in our application we have chosen the MySQL DBMS to hold the database. MySQL is a relational database management system. The main reason is MySQL development project has made its source code available under the terms of the General Public License (GNU) which is an open source web application.

3. Database Design:

One of the most important and challenging task is the database design. The information passed by the customer while registering in the website is stored in the database. The products with their identification, description and image is stored in the database. Moreover, if admin update any of the featured products then update takes place in the database. So the program has a lot to do with the database.

Any query is run on the database by Structured Query Language (SQL). As stated earlier that PHP has some useful features one of them is the support to connect the database and run queries. The following diagram explains the details the database design [3].

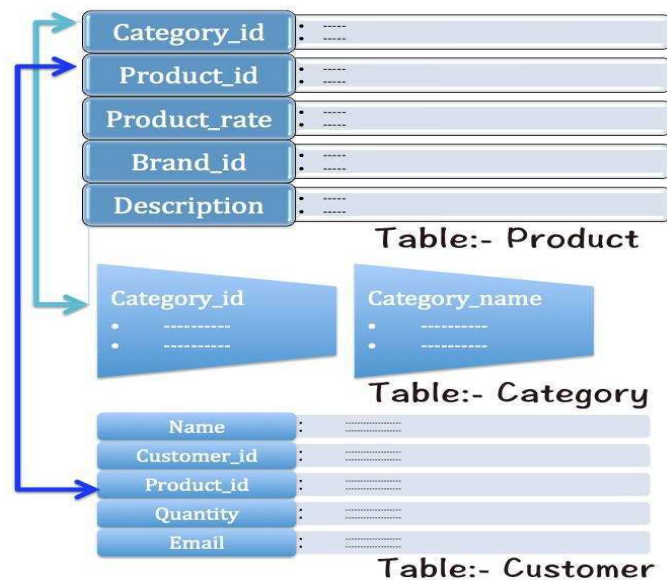
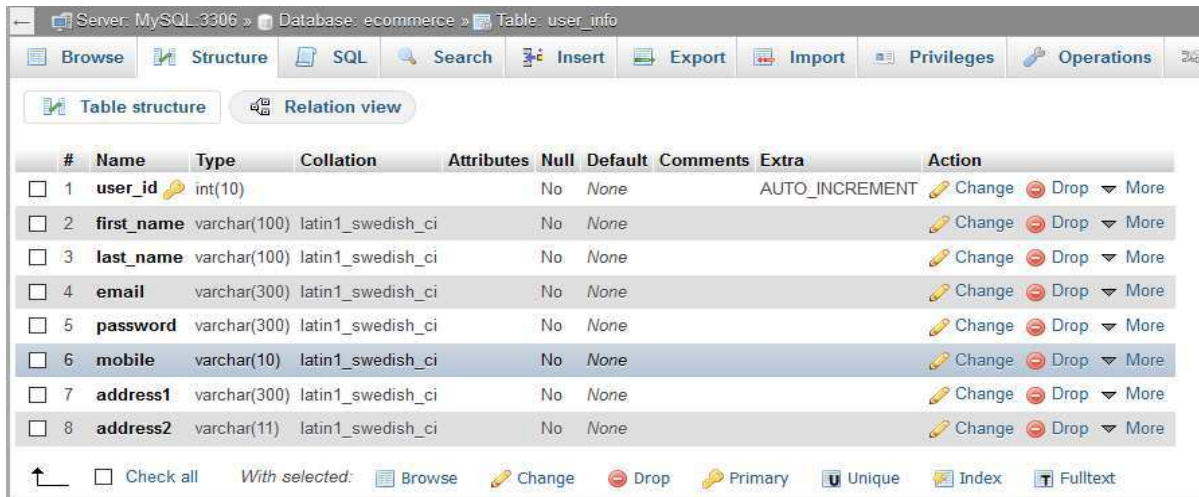


Figure 4.1: Database Tables of Products, Category and Customer

4.2 Database Schema

We are using fourteen tables for the database such that Admin, Admin information, Brands, Add to cart, Categories, Email information, Orders, Order information, Products, Logs, User information and Feedback.

Table 4.1: User Registration



The screenshot shows the MySQL Table Structure for the 'user_info' table in the 'ecommerce' database. The table has 8 columns: user_id, first_name, last_name, email, password, mobile, address1, and address2. The 'user_id' column is the primary key and is auto-incremented. The 'mobile' column is highlighted in blue. The interface includes tabs for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, and Operations. Below the table structure, there are checkboxes for 'Check all' and 'With selected:', and buttons for 'Browse', 'Change', 'Drop', 'Primary', 'Unique', 'Index', and 'Fulltext'.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	user_id	int(10)			No	None		AUTO_INCREMENT	Change Drop More
2	first_name	varchar(100)	latin1_swedish_ci		No	None			Change Drop More
3	last_name	varchar(100)	latin1_swedish_ci		No	None			Change Drop More
4	email	varchar(300)	latin1_swedish_ci		No	None			Change Drop More
5	password	varchar(300)	latin1_swedish_ci		No	None			Change Drop More
6	mobile	varchar(10)	latin1_swedish_ci		No	None			Change Drop More
7	address1	varchar(300)	latin1_swedish_ci		No	None			Change Drop More
8	address2	varchar(11)	latin1_swedish_ci		No	None			Change Drop More

This is User Registration table. It includes eight columns like Uid, FirstName, LastName, MobileNo, Email id and Password, Address. The Uid is the primary key and it will be auto incremented. We can easily change the record as well as drop the record and perform many more operations.

If user want to purchase any product at that time user should register to our website. If user is already registered, then they can easily login to our portal with the credentials.

Table 4.2: Order Information

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	order_id	int(10)			No	None		AUTO_INCREMENT	Change Drop More
2	user_id	int(11)			No	None			Change Drop More
3	f_name	varchar(255)	latin1_swedish_ci		No	None			Change Drop More
4	email	varchar(255)	latin1_swedish_ci		No	None			Change Drop More
5	address	varchar(255)	latin1_swedish_ci		No	None			Change Drop More
6	city	varchar(255)	latin1_swedish_ci		No	None			Change Drop More
7	state	varchar(255)	latin1_swedish_ci		No	None			Change Drop More
8	zip	int(10)			No	None			Change Drop More
9	cardname	varchar(255)	latin1_swedish_ci		No	None			Change Drop More
10	cardnumber	varchar(20)	latin1_swedish_ci		No	None			Change Drop More
11	expdate	varchar(255)	latin1_swedish_ci		No	None			Change Drop More
12	prod_count	int(15)			Yes	NULL			Change Drop More
13	total_amt	int(15)			Yes	NULL			Change Drop More
14	cvv	int(5)			No	None			Change Drop More

This is Order Information Table. It includes fourteen Columns like order id, user id, first name, email, address, city, state, zip code, card name, card number, expdate, product count, total count, cv number.

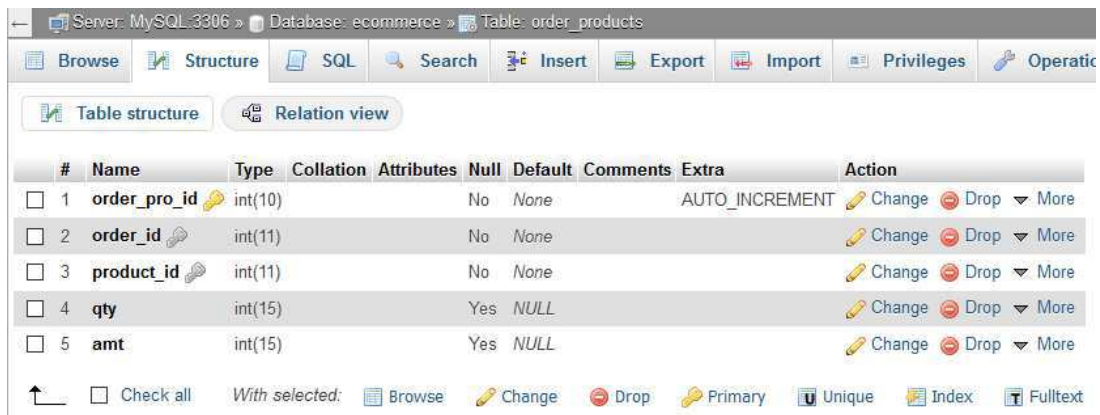
This order Information Table contain all the user information which is needed for buying the products. In this table order is the primary key and it will be auto incremented.

Table 4.3: Add to Cart

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(10)			No	None		AUTO_INCREMENT	Change Drop More
2	p_id	int(10)			No	None			Change Drop More
3	ip_add	varchar(250)	latin1_swedish_ci		No	None			Change Drop More
4	user_id	int(10)			Yes	NULL			Change Drop More
5	qty	int(10)			No	None			Change Drop More

This is Add to Cart Table. It includes five columns like id, product id, ip add, user id, quantity. In this table id is the primary key and it will auto incremented. This table shows how many products you buy.

Table 4.4: Order products

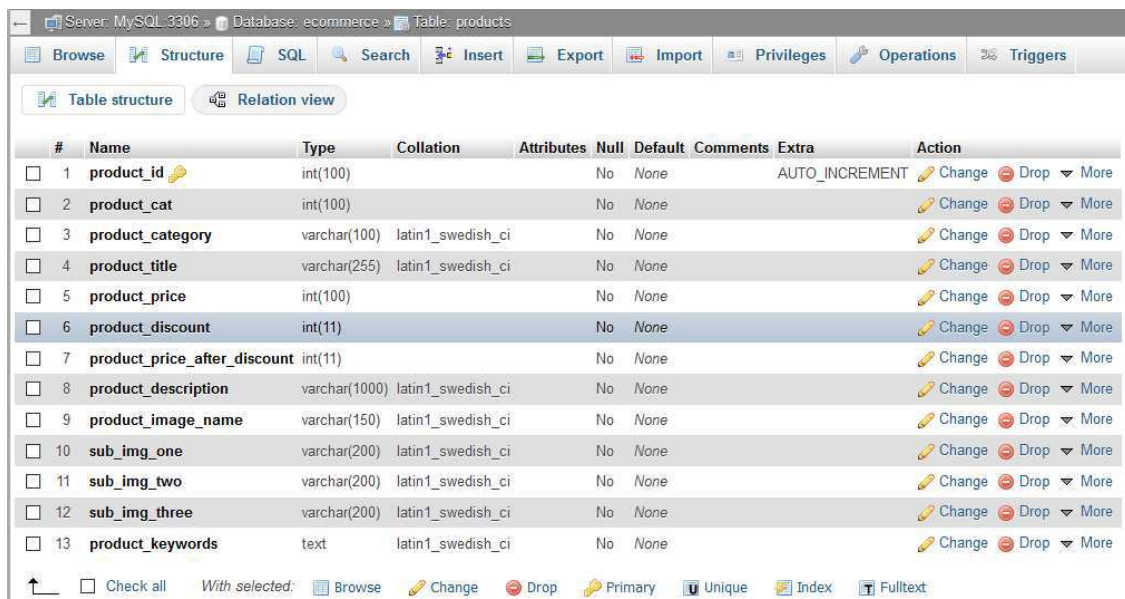


The screenshot shows the MySQL Table structure for the 'order_products' table. The table has five columns: order_pro_id (int(10), AUTO_INCREMENT, primary key), order_id (int(11), foreign key), product_id (int(11), foreign key), qty (int(15)), and amt (int(15)).

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	order_pro_id	int(10)			No	None		AUTO_INCREMENT	Change Drop More
2	order_id	int(11)			No	None			Change Drop More
3	product_id	int(11)			No	None			Change Drop More
4	qty	int(15)			Yes	NULL			Change Drop More
5	amt	int(15)			Yes	NULL			Change Drop More

This is Order Products Table. It include five columns like order product id, order id, product id, quantity, amount. Here in this table Order product is the primary key and it will be auto incremented.

Table 4.5: Products



The screenshot shows the MySQL Table structure for the 'products' table. The table has thirteen columns: product_id (int(100), AUTO_INCREMENT, primary key), product_cat (int(100)), product_category (varchar(100)), product_title (varchar(255)), product_price (int(100)), product_discount (int(11)), product_price_after_discount (int(11)), product_description (varchar(1000)), product_image_name (varchar(150)), sub_img_one (varchar(200)), sub_img_two (varchar(200)), sub_img_three (varchar(200)), and product_keywords (text).

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	product_id	int(100)			No	None		AUTO_INCREMENT	Change Drop More
2	product_cat	int(100)			No	None			Change Drop More
3	product_category	varchar(100)	latin1_swedish_ci		No	None			Change Drop More
4	product_title	varchar(255)	latin1_swedish_ci		No	None			Change Drop More
5	product_price	int(100)			No	None			Change Drop More
6	product_discount	int(11)			No	None			Change Drop More
7	product_price_after_discount	int(11)			No	None			Change Drop More
8	product_description	varchar(1000)	latin1_swedish_ci		No	None			Change Drop More
9	product_image_name	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
10	sub_img_one	varchar(200)	latin1_swedish_ci		No	None			Change Drop More
11	sub_img_two	varchar(200)	latin1_swedish_ci		No	None			Change Drop More
12	sub_img_three	varchar(200)	latin1_swedish_ci		No	None			Change Drop More
13	product_keywords	text	latin1_swedish_ci		No	None			Change Drop More

This is Products Table. It include thirteen columns such that Product id, Product Category, Product title, Product Price, Product discount, Product price after discount, Product description, Product image, name, Sub image one, Sub image two, Sub image three, Product keyword.

In this table we can store the information of the products with their name, category, price, discount, product image.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	feedbacksuggestion_id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	name	varchar(100)	latin1_swedish_ci		No	None			Change Drop More
3	email	varchar(100)	latin1_swedish_ci		No	None			Change Drop More
4	message	varchar(2000)	latin1_swedish_ci		No	None			Change Drop More

Table 4.6: Feedback Suggestion

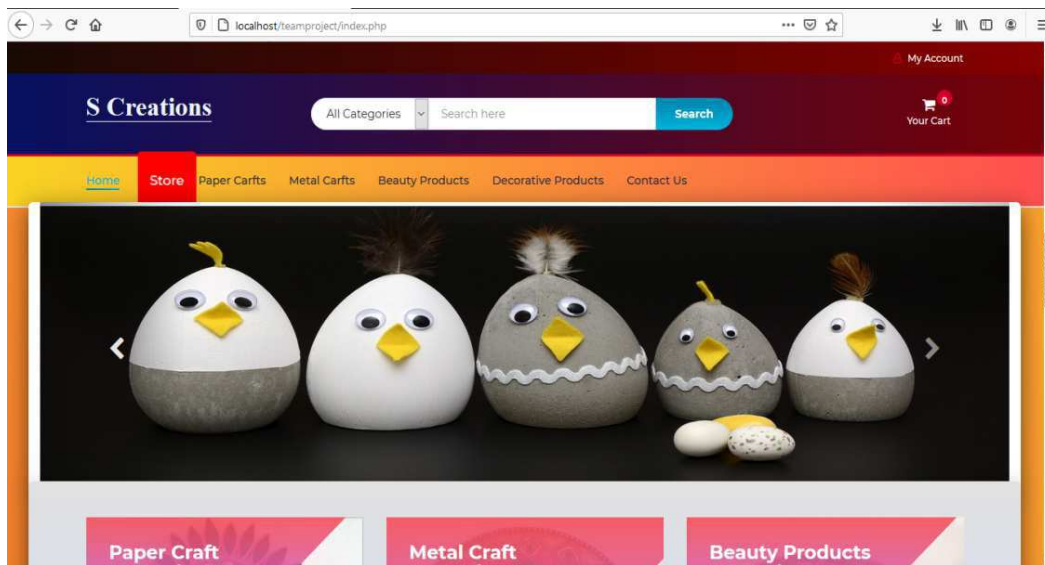
This is Feedback Suggestion table. It include four columns like Feedback Suggestion id, Name, Email, Message. Feedback Suggestion id is the primary key and it will be auto incremented.

In this table user to store the feedback given by the user with their name, email and message.

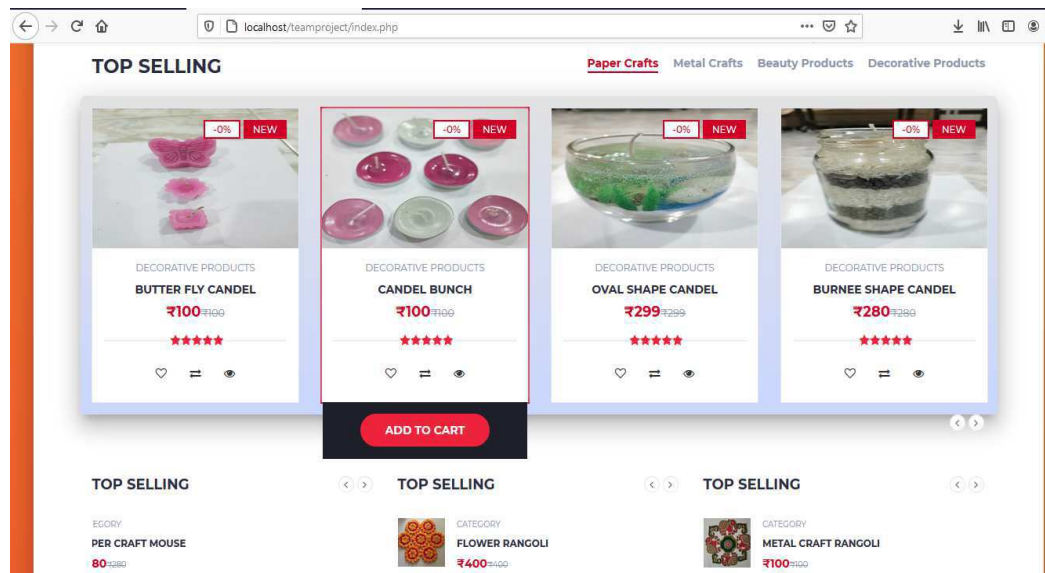
Chapter 5

EXPERIMENTAL RESULTS/OUTPUTS

- Home page



- Top Selling page



- **Register page**

The screenshot shows a web browser window with the URL `localhost/teampoint/index.php`. The website has a dark blue header with the logo "S Creations" and navigation links for "Home", "Store", and "Paper Crafts". A modal form titled "Register Here" is centered on the screen. The form contains the following fields: First Name, Last Name, Email, password, confirm password, mobile, Address, and City. Below these fields is a red "SIGN UP" button. At the bottom of the form, there is a link that says "Already have an Account ? then login". The background of the website shows various paper craft products.

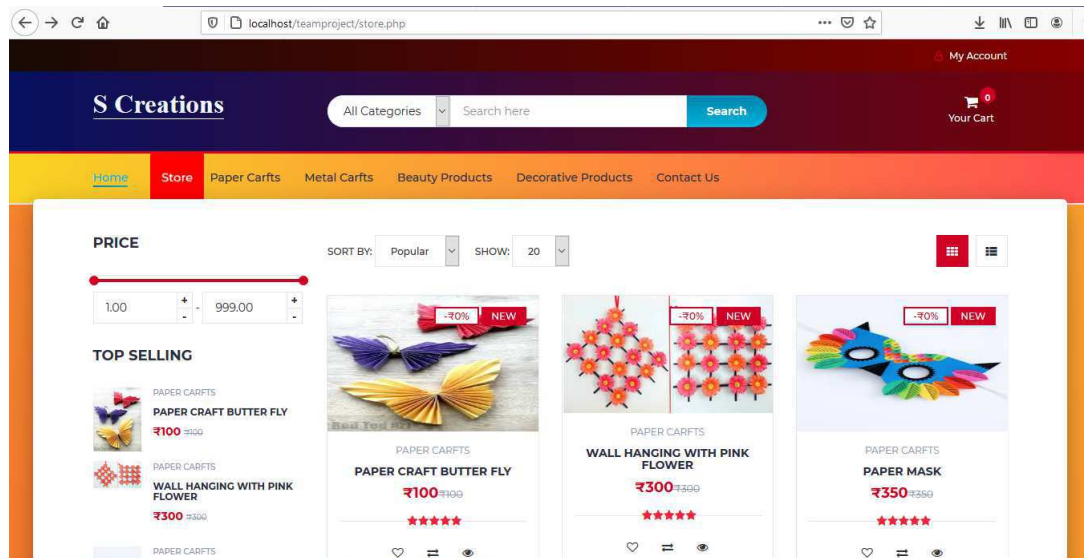
Here new user can register to get benefit from our websites. User can enter their details as mentioned in register form. User should enter their valid Email id because they will get notification on the registered Email Id. User should remember the email id and password during the registration for sign in next time.

- **Login page**

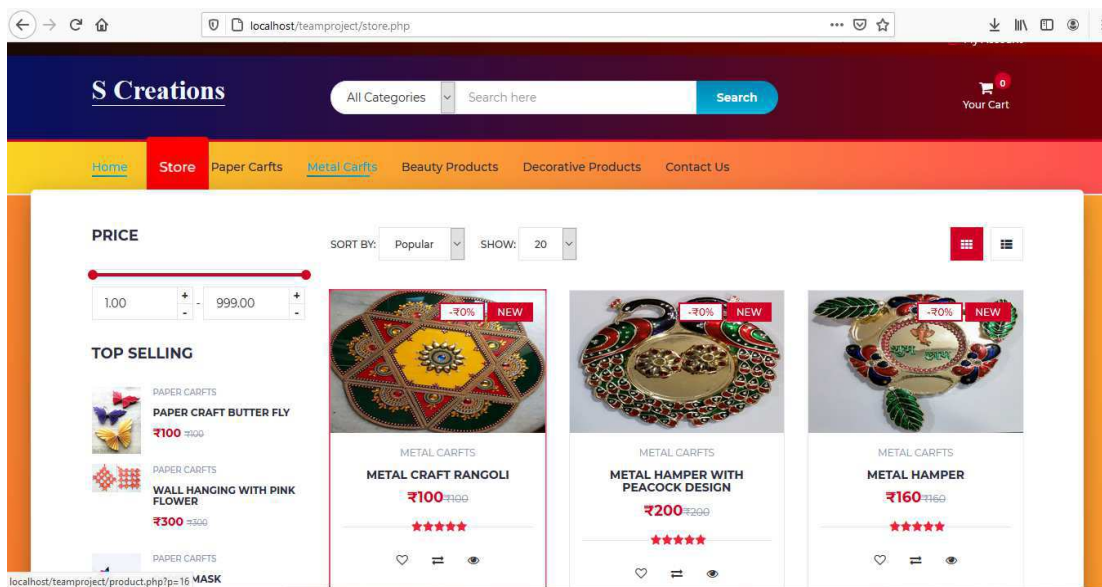
The screenshot shows the same web browser window as before, but the modal form is now titled "Login Here". It contains two fields: "Email" and "password". Below these fields is a red "LOGIN" button. At the bottom of the form, there is a link that says "Not Registered ? SignUp Here". The background of the website shows various paper craft products.

This is Login Page. Here user can enter their registered email id and pass- word. If the user enters invalid emailed or password, then couldn't sign in and the message will display on the screen Enter valid Email Id or Password.

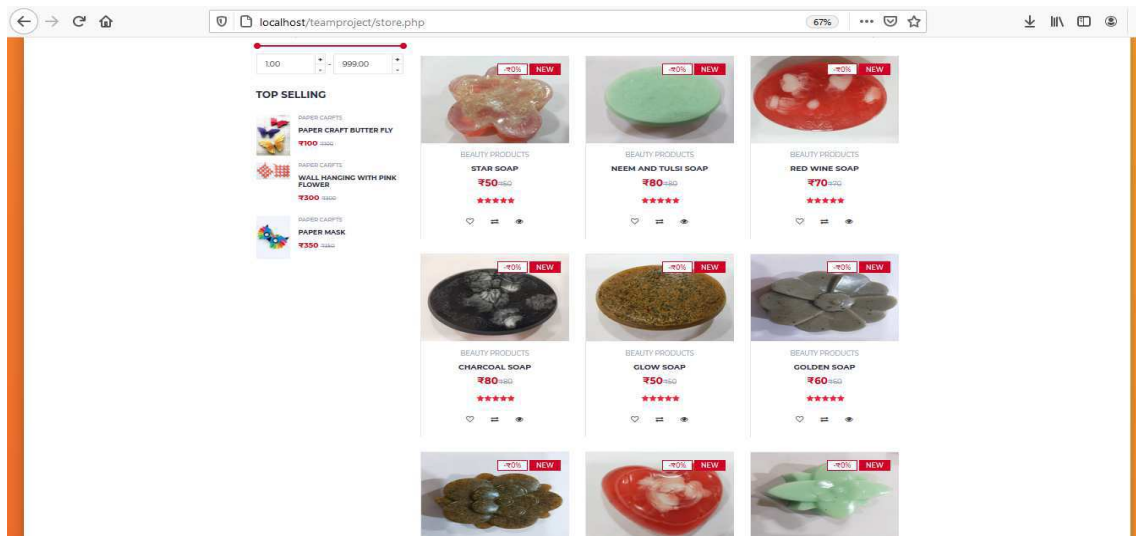
- **Paper craft page**



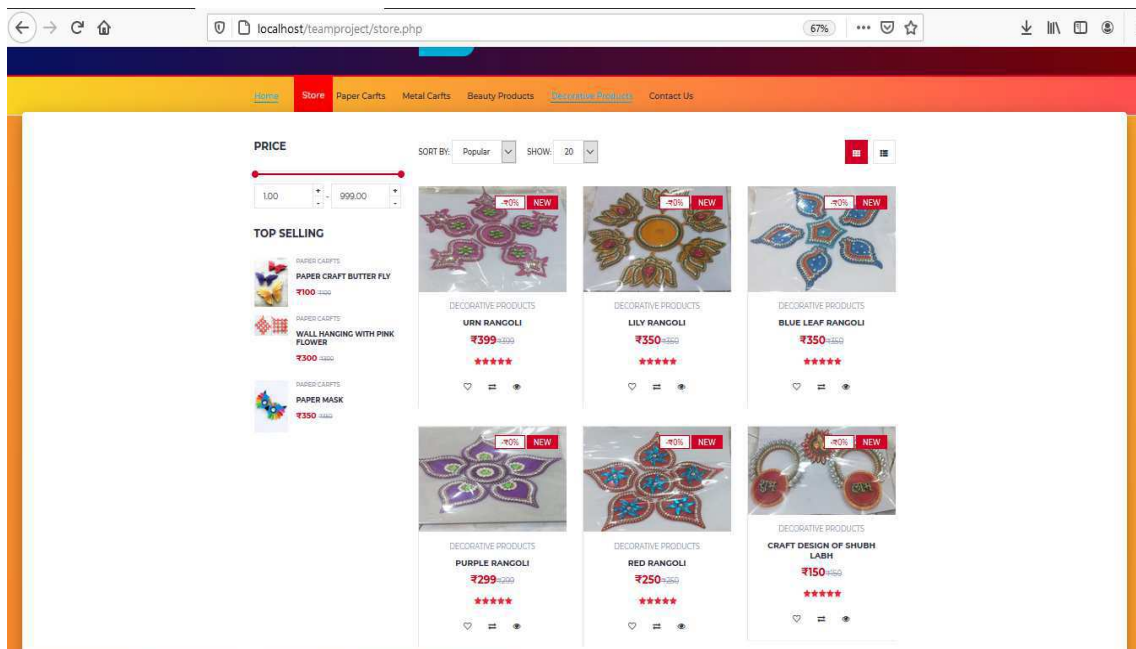
- **Metal Craft page**



- **Beauty Products page**



- **Decorative Products page**



- **Contact Us page**

S Creations

All Categories Search here

Home Store Paper Crafts Metal Crafts Beauty Products Decorative Products Contact Us

CONTACT US

Enter Your Name
Enter Your Name...

Enter Your E-mail
Enter Your E-mail...

Feedback / suggestion
Write your Feedback/suggestion here...

Submit

Address:
S Creations, Vishrantwadi
V Vishrantwadi
Pune-411015 (Maharashtra)
T. 9822219459
sonaligonjari1976@gmail.com

ABOUT US
Pune
9822219459
sonaligonjari1976@gmail.com

CATEGORIES
Paper Crafts
Metal Crafts
Beauty Products
Decorative Products

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- **Add to Cart page**

Product	Price	Quantity	Subtotal
<p>Wall Hanging With Green Flower</p>	360	1	360
<p>Metal Hamper</p>	200	1	200
<p>Red Wine Soap</p>	70	1	70
<p>Decorative Pink Rangoli</p>	300	1	300
<p>Class Candel</p>	250	1	250

Continue Shopping

Total : \$ 1180 Ready to Checkout

- **Admin Login Page**

Login Page

Username

Password

[Sign up](#)

[Login](#)

- **Admin Add/Delete Product Page**

Super Admin

- Customer's Info
- Add/Delete Product
- Manage Admins
- Review Feedbacks
- Logout

Search...

admin... You're logged in [Logout](#)

:- Manage Product :-

Information Form

Product Category
Select Category

Product Title

Product Price

Product Discount






(In description, Next line =
)

Product Description

Product Image Name

(Image size limit is 1.5 MB)

Information Table

Product Id	Category Id	Title	Price	Discount	Price with Discount	Description	Main Image Name	Image	Keyword	Edit	Delete
1	1	Paper Craft Butter fly	100	0	100	Butter Fly With Different Colour	p1.jpg		Butter Fly	Edit	Delete
2	1	Wall Hanging With Pink Flower	300	0	300	Wall Hanging	1599203962_p2.jpg		Wall Hanging	Edit	Delete
3	1	Paper Mask	350	0	350	colourful mask	1599204020_p3.jpg		Mask	Edit	Delete
4	1	Wall Hanging With Green Flower	400	10	360	Wall Hanging	1599204085_p4.jpg		Wall Hanging	Edit	Delete
5	1	Paper Craft Flower Design	299	0	299	Wall Hanging	1599204194_p5.jpg		Wall Hanging	Edit	Delete

- **Customer Information Page**

Super Admin

- Customer's Info
- Add/Delete Product
- Manage Admins
- Review Feedbacks
- Logout

admin... You're logged in
Logout

-: User's Information :-

Click on User's Id to see orders placed by that user.

User Id	Name of User	Last Name	Email
12	puneeth	Reddy	puneethreddy951@gmail.com
15	hemu	ajhgdg	puneethreddy951@gmail.com
16	venky	vs	venkey@gmail.com
19	abhishek	bs	abhishekbs@gmail.com
21	prajval	mcta	prajvalmcta@gmail.com
22	puneeth	v	hemu@gmail.com
23	hemanth	reddy	hemanth@gmail.com

- **Manage Admin Page**

Super Admin

- Customer's Info
- Add/Delete Product
- Manage Admins
- Review Feedbacks
- Logout

admin... You're logged in
Logout

-: Manage Admin :-

Information Form

Url of Username

Password of Username

Save

Information Table

Username	Password	Edit	Delete
admin	admin	Edit	Delete

Chapter 6

CONCLUSIONS AND FUTURE SCOPE

CONCLUSION:

World Wide Web has become a major resource in modern business it gives new opportunities to business. An online website can be compared to a shops interior. The website is attractive, provides easy navigation, multiple options in terms of brands, color and design the customer would stay on the site. This website supports a flexible, attractive and an easy to use environment for an online website along with the addition feature like an off-site add to cart. This website provides an easier design to implement and provides easy navigation, on site and off site add to cart, and online payment. The off-site add to cart is a new feature proposed in this website.

FUTURE SCOPE:

Based on current website status following features will be considering for future enhancement.

1. Multiple shopping carts can be provided per user.
2. A mobile application for the website can be developed.
3. Payment through e-wallets could be made possible.
4. Send SMS alerts to the users.

References

- [1] Ruvalcaba, Z. and Boehm, A., “Introduction to The Web Development in murachs HTML5 and CSS3”, 1sted., Fresno, CA: Mike Murach and Associates, Inc., 2012, pp. 4–7.
- [2] E.L.Thompson and S. D. Nowicki and T. Mayer, “Unified Modeling Language in Professional PHP6”, 2nd ed., Indianapolis, Indiana: Wiley, 2010, pp. 3148.
- [3] “The Design and implementation of E-Commerce site” by Swapna Kodali. [4] S. E. Ullah, T. Alauddin and H. U. Zaman, “Developing an E-commerce website”, 2016 IEEE International Conference on Microelectronics, Computing and Communications (MicroCom), Durgapur, 2016, pp.1-4.
- [5] “E-Commerce In India” by Abhishek, <http://www.slideshare.net/>
- [6] Rohini V, Ancy Merlyn DSouza, Sachin Giriappanavar, Sharun Mathew, “Shopping Application for E-Commerce”, International Journal of Advance Computer Technology — Volume 4, Number 3
- [7] Hong, W. and Zhu, K. Migrating to “internet-based e-commerce: Factors affecting ecommerce adoption and migration at the firm level, Information and Management”, 43, 2006, pp. 204221.
- [8] Lee, J. S. and Lin, K. S. A “robust e-commerce service: Light-weight secure mail-order mechanism, Electronic Commerce Research and Applications”, 11, 2012, pp. 388396.
- [9] Deng, L. and Poole, M. S. “Aesthetic design of e-commerce web pages Webpage Complexity, Order and preference, Electronic Commerce Research and Applications”, 11, 2012, pp. 420440.
- [10] Mitrevski, P. J. and Hristoski, I. S. “Behavioral-based performability modeling and evaluation of e-commerce systems, Electronic Commerce Research and Applications”, 13, 2014, pp. 320340. 56
- [11] Burt, S. and Sparks, “L. E-commerce and the retail process: a review, Journal of Retailing and Consumer Services”, 10, 2003, pp. 275286.

- [12] Crespo, A. H. and Bosque, I. R. “The influence of the commercial features of the Internet on the adoption of e-commerce by consumers, *Electronic Commerce Research and Applications*”, 9, 2010, 562575.
- [13] Atif, Y. A “Distributed and interoperable object-oriented support for safe ecommerce transactions, *Information and Software Technology*”, 46, pp. 2004, 149164.
- [14] Takashi Endo, Hiroshi Suzuki, Haruo Hayami “Development of a website for posting paper craft making after workshop ” published by IEEE on 7-9 Jan 2018.

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E-commerce Platform Using Website Development

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Abstract:

E-commerce website is totally related with the selling and marketing of the craft products. This is a small scale project for Online homemade craft / shopping system. The basic idea is that providing service to customers for buying products using online system. The Online homemade craft Shopping system enables vendors to set up online products with sections. We are providing the products section wise. So the customers can browse through the sections. The aim of this project is on the online shopping application it is developed using HTML5, Java script, CSS, PHP. The agenda is designing an online shopping site to manage the items in the shop and also help customers purchase them online without having to visit the shop physically. Our online shopping system will use the internet as the sole method for selling items to its consumers. Shopping will be highly personalized and the system will provide lower prices than most competitors. It is an online store that enables website owners to sell their product online. It is a web shopping cart that web enables the day-day sales functions. It includes product and customer management modules. This website will be useful to anyone who wants to purchase items using internet. We are going to store the data in our database. So that in case of any query it will be easily retrieved.

Keywords:- E-Commerce, Service etc.

1. INTRODUCTION

The internet is the way that helps a person in all aspects. In today's world, people don't have time for their personal needs. The innovation is fast to the point that anybody can do anything by simply sitting in a room. So, it is an imperative issue as per observation. In the event that somebody wish to purchase and view things, they can purchase online with the assistance of web. Commercial centres like Flipkart, Amazon and Snapdeal are giving gigantic chances to youthful understudies, housewives just as little shop proprietors to scale their organizations and win great cash ^{[1][13]}. Not with standing, there are different variables that one needs to take a gander at before beginning up an online business. Setting up an online shop to move your items can be a valuable and beneficial method for working together.

Web based moving can likewise widen your client base, as you can pitch to individuals who are interstate or abroad. It enables you to work without fundamentally requiring a conventional shop front and gives your clients greater adaptability since they can purchase your items whenever of the day. Internet shopping doesn't speak to everybody, so ensure your objective market is OK with purchasing on the web before you begin. You may discover you can achieve more clients by offering web based shopping close by a customary shop. Web based shopping makes utilization of advanced innovation for dealing with the stream of data, items, and instalment between shopper, website proprietors and providers.

In the event that you were move your item disconnected, at that point you will ready to move your items in constrained region where your shop is found, however when you are going to move your items online then you can move the items in various locales. For this situation, your benefit will be naturally expanded. Presently multi day everybody is occupied with their work they didn't get time for buying the items by going to specific shop, with the assistance of online commercial ^[5] centres they will spare their profitable time just as they will ready to see clients audit and contrast and the results of different merchants ^[6].

Online stores offer item depiction, pictures, correlations, cost and significantly more. The clients get limits through which they can spare their cash. Labour additionally diminishes because of online commercial center. Shopping basket is one of the essential office gave in web based shopping, this lets client to peruse distinctive products and enterprises and once they select a thing to buy they can put the thing in shopping basket, and keep perusing till the last choice ^[12].

2. RESEARCH METHODOLOGY

The proposed application is implemented using HTML5, CSS, Java script and PHP^[4]. The currently working e-commerce shopping websites provide the features of a sophisticated shopping cart, on-site wish list. This paper proposed an e-commerce shopping website to sell and promote only the Indian products.

Modular Design

The functionality of the proposed application is divided into number of sub modules. The modules to be taken into account are customer shopping cart module, orders, payment and product module. These modules are integrated together give the functionality desired out of the application.

Customer

This information includes giving username and password to login to this site. This is required to verify the user. In this module the client information is processed. The email id of the customer is used to confirm the customers orders and also to send promotional emails^[10].

Order

In this module customer order is processed. The user can place the order for the items they wants to buy. It verifies the pin code and it confirms the order to delivered place. At the shipping address the product should be delivered.

Shopping Cart

This sub-module lets the user to select the items that they intends to buy to store in cart before placing the order. The items can be stored into the cart and it can be deleted from the cart.

Payment

In this sub module payment options for the order is given and processed. Payment would be through credit card, debit card, E-cash or cash on delivery. The total charges of the product is the sum of cost of the product and delivery charges will be deducted from the user's account in case of payment options other than cash on delivery.

Product

In this module product details can be added to the created database. The tax per product and actual price of the products can be added as per the standard policy. The product details can be edited. The database is normalized^[13] so that the redundancy is minimized.

The database for the proposed web-application is normalized up to third normal form.

The products are stored as per category. Arrangement of products into categories enables the user to search the products based on its category effectively.

DEVELOPMENT TOOLS

The entire development process has been subdivided into two: the front end development and the backend development. The front end comprises of the visually visible parts such as the home page, contact page, admin panel, shopping cart page. The back end contains the database and its interaction with the front-end.

A. Front End Development

The front end was initially raw coded using JavaScript. JavaScript is a client side scripting language which is a dedicated language for web development. JavaScript code was simply mixed with the Hypertext Mark-up Language (HTML5) code. A static page is an HTML5 document that is stored on the web server and does not change. Hypertext mark-up language is the language used to design the web pages of an application.

Cascading Style Sheet (CSS) is a style sheet language used for describing the look and formatting a document written in a mark-up language. These CSS files are linked with the class files with .php extensions to put the panels in order, the text with correct font, size and color. JavaScript is a client side scripting language most commonly used as part of web browsers and

its implementations allow client side scripts to interact with the user, control the browser and alter the document content which is displayed.

For example, in website for the clients registration, the system ask to provide their details which contains their name, email address, mobile number, etc. If they missed any of the details then immediately the browser asks them to fill the particular field. This is implemented & handled by a JavaScript.

B. Backend Development

The Database Management System (DBMS) provides support for the back end. The database management system is essentially software where admin can create the database, add, drop, alter and update tables. The tables can hold different types of data for example: integer, variable characters etc. in our application we have chosen the MySQL DBMS to hold the database. MySQL is a relational database management system. The main reason is MySQL development project has made its source code available under the terms of the General Public License (GNU) which is an open source web application.

C. Database Design

The information provided by the customer while registering in the website is stored in the database. The products with their identification, description and image is stored in the database. Moreover, if admin update any of the featured products then update takes place in the database. So the program has a lot to do with the database.

Any query is run on the database by Structured Query Language (SQL). As stated earlier that PHP has some useful features one of them is the support to connect the database and run queries. The following diagram explains the details the database design ^[3].

The system have six tables in the database namely: advertise, brand, category, product, small_add and registration. The formation of three tables are shown in the diagram. The table entitled “product” has the attributes namely:product_id, product_rate, category_id, brand_id, and product_rate. Where product_id is the primary key for this table i.e. each product will have a unique identity.

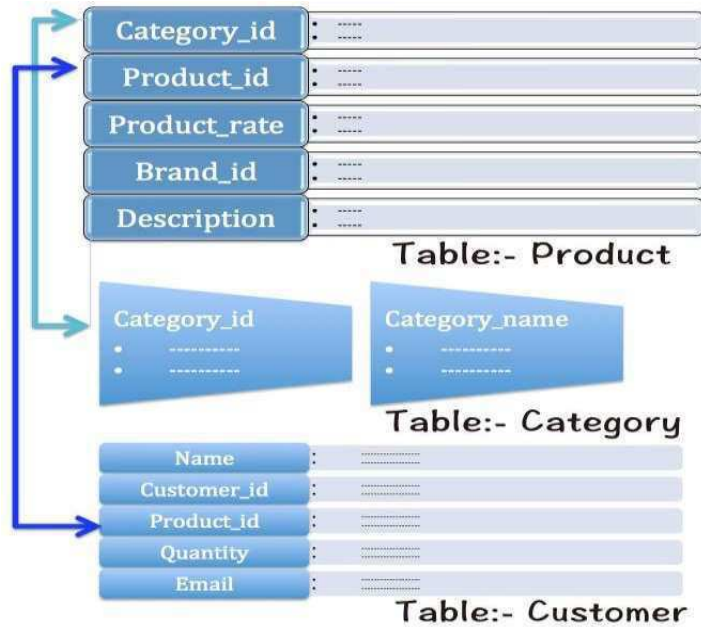


Fig. 1 . Database Tables of product, category and customer database.

The attribute category_id plays as a foreign key for this table *i.e.* this foreign key creates a link with table category having two attributes: website his information will be stored in the customer table with the attributes- name, customer_id, product_id, quantity and email. Again customer_id is the unique key for this table and prduct_id is the foreign key to link with the product table.

3. SYSTEM ARCHITECTURE

The Data Flow Diagram for the current web-application system. Each process within the system is first shown as a Context Level DFD and later as a detailed DFD. The context level DFD provides a conceptual view of the process and its surrounding input, output and data stores. The detailed DFD provides a more detailed and comprehensive view of the interaction among the sub-processes within the system.

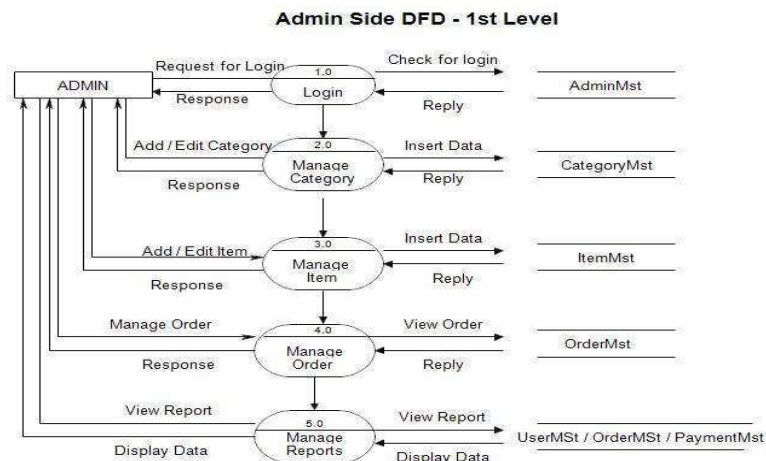


Fig 2. System Structure of Admin

The Admin side DFD [2][3] describe the functionality of Admin. Admin is an owner of the website. After login to the admin panel then admin can manage category, manage item, manage order, manage report, admin can add and delete item. Admin can add category of item and then add items by category wise and admin can manage order and payment detail.

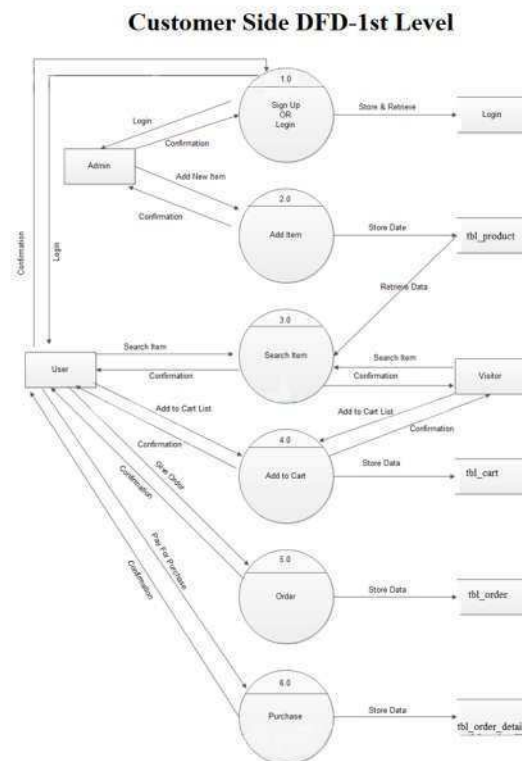


Fig 3. System Structure of User

Customer select the product as per their requirements specification, description. The Customer side DFD describe the functionality of Customer. Customer should login with correct credentials. Then it should place the order through the payments. Customer can pay the payment through net banking credit card, debit card and cash on delivery.

4. IMPLEMENTATION

The website design in this paper needs a web browser and a database for implementation at the server side and only a web browser at the client side. The user types the URL corresponding to the website in the address field of the browser, a web server is contacted to get the requested information. Web server accepts the incoming HTTP requests and returns the requested information in an HTTP response. The application is developed using HTML5 as, and MYSQL workbench as the backend.

Integrating the website and the database:

Admin should be able to keep track of the all products ordered, payment details, customer inquiries. So a well organized database is very essential for maintenance of an ecommerce web-application. Customers ordering the products from an e-commerce website should be able to get the information of products, ask questions, review, and give feedback on the products. Also, they can select the products they would like to buy, submit payments. The user must be able to access the database and for this the remote database connectivity is established. The user information is stored in and retrieved from the remote database. The database used in this application is MYSQL Server.

Webpage design:

The web pages are designed in HTML5 and Java Script ^{[8][9]}. The web pages should be dynamic in nature as the user should be able to access the product details, make payment, post feedback, etc. The static web pages are used for displaying the product description, privacy policy and so on.

Working:

The administrator includes new items, settles on the ideas on certain items. The items that are not sought after can be for all time erased from the database which implies that the closeout of those items on the site is ceased. The administrator is given the benefits to change and refresh the database. The seller subtleties, installments to the merchant are to be taken consideration by the administrator. The administrator can choose the money down office to make accessible in all territories or limit to certain regions as it were. The transportation subtleties, for example, the regions where the delivery offices are accessible, the subtleties of the delivery organizations and the exchange between them are to be checked. The reports of the regular deal, benefit, the items are very on interest, etc are produced according to the demand. The report age isn't feasible for the client. A client suspected to have broken the protection strategy can be hindered by the administrator. The customer accesses the website by typing the URL corresponding to the website as shown in Fig. 4. The user can request for product details by clicking the products menu. The user is provided with two types of Add to Cart – onsite add to cart and offsite add to cart. In the add to cart the user is allowed to add any product available on the site to the list.

Promotional mails can be sent to the customers e-mail id based on their address. The heuristics analysis is to be made on a particular customer to know there interests. So that only on those products, the promotional notifications through mail can be sent to that customer.

The customer should sign up for the first time to place order of a product. Later each time user to buy products he should login. The add to cart of the user can be maintained if and only if the user has an account in the database. The product that user want to buy will be added to the cart, and if user to see some more products he can continue while one or more products are on the cart. The order of the products is placed from the cart as shown in Fig. 5. The products in the cart can be removed, more products can be added to the existing.

Once the order is placed the next step would be to give the order details as shown in Fig. 6. The user is asked to type his address, mobile number and pin code. Pin code is used to check the availability of the shipping service to given place. The next step is payment. The payment can be done through credit card, debit card, pay pal and cash on delivery. If the user want to make the payment via credit card or debit card, then the card details are asked. Once the user enters the card details the user is directed to a payment gateway for the transaction. Once the order is placed then mail will be send to the user. The user is informed via e-mail while the order is processed, shipped, and delivered at the destination.

The user will be given an order id which will help in tracking the order. The order can be cancelled before it is being shipped. The return policy is specified by the admin. The recently viewed products are displayed on the user's home page. The user can assign rating to products, review the products and give feedback. The purchase history of the user is maintained.

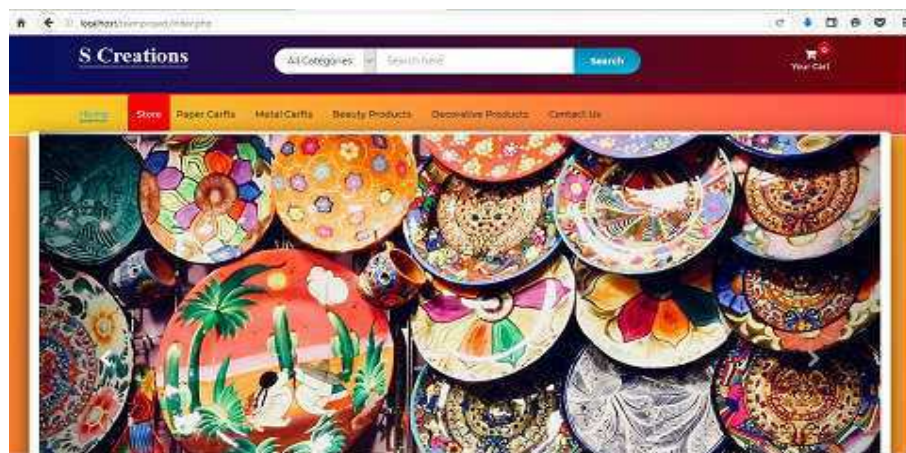


Fig. 4 . Home Page of Website.

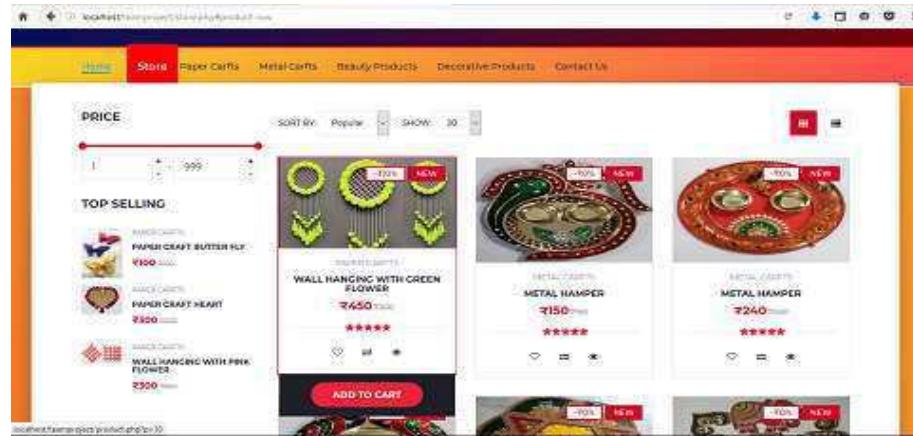


Fig. 5 . Product Details.

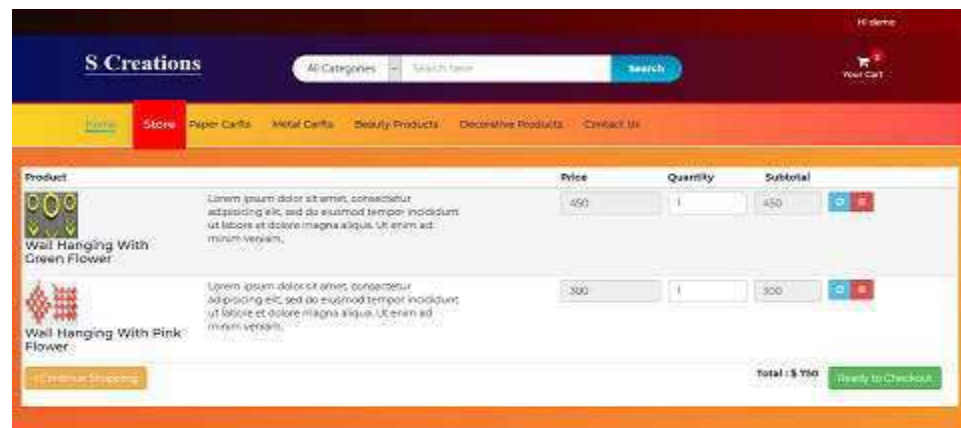


Fig. 6 . Add to cart from.

5. CONCLUSION

Online shopping is the process whereby consumers directly buy product services from seller in real time, without any intermediary service. Over an internet. World Wide Web has become a major resource in modern business. It gives new opportunities to business. An online website can be compared to a traditional shop's interior. The website is attractive, provides easy way for navigation, multiple options in terms of brands, color and design the customer would stay on the site. This paper supports a flexible, attractive and an easy to use environment for an online website application along with the addition feature like an offsite add to cart. Hence as future enhancements to the proposed system the following features.

1. Payment through e-wallets could be made possible.
2. Multiple shopping carts can be provided per user.

REFERENCES

- [1] Ruvalcaba, Z., & Boehm, A., “*Introduction To The Web Development*” in murach’s HTML5 and CSS3, 1sted., Fresno, CA: Mike Murach and Associates, Inc., 2012, pp. 4--7.
- [2] E.L.Thompson & S. D. Nowicki& T. Mayer,“*Unified Modeling Language*”in Professional PHP6, 2nd ed.,Indianapolis,Indiana: Wiley, 2010, pp. 31–48.
- [3] S. E. Ullah, T. Alauddin and H. U. Zaman, “*Developing an E-commerce website*”, 2016 IEEE International Conference on Microelectronics, Computing and Communications (MicroCom), Durgapur, 2016, pp.1-4.
- [4] E-Commerce In India by Abhishek, <http://www.slideshare.net/>
- [5] Mitrevski, P. J. and Hristoski, I. S. “*Behavioral-based performability modeling and evaluation of e-commerce systems*”, Electronic Commerce Research and Applications, 13, 2014, pp. 320– 340.
- [6] Hong, W. and Zhu, K. “*Migrating to internet-based e-commerce: Factors affecting ecommerce adoption and migration at the firm level*”, Information & Management, 43, 2006, pp. 204–221.
- [7] Lee, J. S. and Lin, K. S. “*A robust e-commerce service: Light-weight secure mail-order mechanism*”, Electronic Commerce Research and Applications, 11, 2012, pp. 388–396.
- [8] Atif, Y. “*A distributed and interoperable object-oriented support for safe e-commerce transactions*”, Information and Software Technology, 46, pp. 2004, 149–164.
- [9] Deng, L. and Poole, M. S. “*Aesthetic design of e-commerce web pages – Webpage Complexity, Order and preference*”, Electronic Commerce Research and Applications, 11, 2012, pp. 420–440.
- [10] Rohini V, Ancy Merlyn D’Souza, Sachin Giriappanavar, Sharun Mathew, “*Shopping Application For E-Commerce*”, International Journal Of Advance Computer Technology | Volume 4, Number 3
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- [12] Crespo, A. H. and Bosque, I. R. “*The influence of the commercial features of the Internet on the adoption of e-commerce by consumers*”, Electronic Commerce Research and Applications, 9, 2010, 562–575.